



Amendments to the:

**2009 International  
Mechanical Code**

For Buildings other than Detached 1 & 2 Family Dwellings and Multiple  
Single-Family Dwellings (Townhouses)



STATE OF ILLINOIS            )  
  ) SS  
COUNTY OF WINNEBAGO )

**CERTIFICATE OF PUBLICATION IN PAMPHLET FORM**

I, the undersigned, do hereby certify that I am the duly qualified and acting Legal Director and ex officio Keeper of the Records and Seal of the City of Rockford, Winnebago County, Illinois (the "City"), and as such official I am the keeper of the official journal of proceedings, books, records, minutes and files of the City and of the City Council (the "City Council") thereof.

I do further certify that on the 5th day of October, 2011, there was published in pamphlet form, by authority of the City Council, a true, correct and complete copy of Ordinance No. **2011-124-O** and said ordinance as so published was on said date readily available for public inspection and distribution, in sufficient number, at my office as Legal Director and ex officio Keeper of the Records and Seal located in the City.

IN WITNESS WHEREOF I have affixed hereto my official signature and the seal of the City, this 5th day of October, 2011.

[SEAL]

  
\_\_\_\_\_  
LEGAL DIRECTOR AND EX OFFICIO  
KEEPER OF THE RECORDS AND SEAL

JC:sa

Committee report passed:

ORDINANCE NO. 2011-124-0

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ROCKFORD, ILLINOIS, THAT:

By passage and approval of this Ordinance, the Mayor and Legal Director are hereby authorized to execute said amendments to Chapter 105-146 and 105-147 of the ICC International Mechanical Code/2009 edition regarding license classifications for gas piping and warm air heating.

The provisions and sections of this Ordinance shall be deemed severable, and the invalidity of any portion of this Ordinance shall not affect the validity of the remainder.

All orders, resolutions, or ordinances in conflict herewith are hereby repealed insofar as such conflict exists, and this Ordinance shall take effect immediately upon its passage, approval, and publication, as required by law.

A full, true and complete copy of this Ordinance shall be published within ten (10) days after passage in pamphlet form by and under authority of the Corporate Authorities.

APPROVED:

MAYOR

ATTESTED:

LEGAL DIRECTOR

PASSED: 10/3/11

APPROVED: 10/5/11

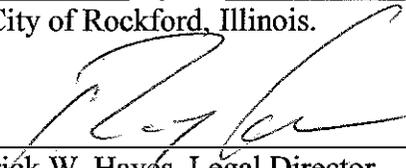
PUBLISHED: 10/5/11

ATTESTED and FILED in my office this 5th day of October, 2011 and published in pamphlet form this 5th day of October, 2011.

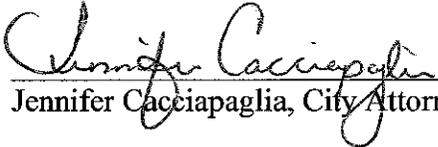
Legal Director and ex officio  
Keeper of the Records and Seal

Published in pamphlet form this 5th day of October, 2011 by  
Order of the City Council of the City of Rockford, Illinois.

APPROVED BY:

  
\_\_\_\_\_  
Patrick W. Hayes, Legal Director

RECOMMENDED BY:

  
\_\_\_\_\_  
Jennifer Cacciapaglia, City Attorney

ORDINANCE NO. 2011-124-0

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY ROCKFORD, ILLINOIS THAT:

Chapter 105, of the Code of Ordinances of the City of Rockford, Illinois, passed April 7, 2008, approved April 14, 2008, and published April 14, 2008 as amended, be and the same is hereby amended by the following, to wit:

**Section 105-146 is amended as follows:**

**Section 105-146 Mechanical Code adopted by reference.**

The ICC International Mechanical Code/2009 as published by the International Code Council including Appendix A is hereby adopted and amended as the Mechanical Code of the City of Rockford in the State of Illinois; and each and all of the regulations, provisions, penalties, conditions and terms of said code are hereby referred to, adopted and made a part thereof as if fully set out in the Ordinance, with the additions, insertions, deletions and amendments contained in Section 105-147 of this article.

**Section 105-147 is amended as follows:**

**Section 105-147 Amendments to the Mechanical Code.**

The ICC International Mechanical Code/2009 edition is amended as follows:

(1) Section 101.1 is amended as follows:

**101.1 Title.** These regulations shall be known as the *Mechanical Code* of the City of Rockford, Illinois, hereinafter referred to as Mechanical Code, or "this code".

(2) Section 103.5 is added as follows:

**103.5 Restriction of employees.** An official or employee connected with the enforcement of this code, except whose only connection is that of a member of the board of appeals established under the provisions of section 109 of this code, 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 construction documents thereof, unless that person is the owner of the building; nor shall such officer or employee engage in any work that conflicts with official duties or with the interests of the department.

(3) Section 106.1.1 is added as follows:

**106.1.1 Permits required.** Mechanical work shall not be commenced until a permit for such work has been issued by the code official. A Mechanical permit shall not be transferable. All work shall be performed and completed by permit holder. License holder or firm must be on site while work is being performed to supervise, install and direct work under scope of permit.

(4) Section 106.2 is amended as follows:

**106.2 Permits not required.** Permits shall not be required for the following types of mechanical work:

1. Portable heating appliances;
2. Portable ventilation appliances and *equipment*;
3. Portable cooling units;
4. Steam, hot water or chilled water piping within any heating or cooling *equipment* or appliances regulated by this code;
5. The replacement of any minor part that does not alter the approval of *equipment* or an appliance or make *equipment* or *appliance* unsafe;
6. Portable evaporative coolers; and

7. Self-contained refrigeration systems package-type equipment containing 10 pounds (4.54 kg) or less refrigerant or that are actuated by motors of 1 horsepower (764W) or less in which all components of the refrigeration system are located within a single enclosure without requirement for on-site assembly or piping of any kind whatsoever.
8. Self contained portable refrigeration appliances.
9. Repair or replacement of interior or exterior wall or ceiling coverings (i.e. plaster, gypsum board or paneling), provided:
  - a. mechanical systems in a hazardous condition are not exposed.
  - b. mechanical systems are not being resized, rearranged or added to.
10. Ordinary repairs that do not include:
  - a. cutting away of any framing within a ceiling, floor, wall, partition or portion thereof.
  - b. removal or cutting of any structural beam or load bearing support.
  - c. removal or change of any required means of egress, or rearrangement of parts of a structure affecting means of egress requirements.
  - d. addition to, alteration of, replacement or relocation of any gas piping or mechanical systems or other work affecting public health or general safety.
11. Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

(5) Section 106.3 is amended a follows:

**106.3 Application for permit.** Each application for a permit, with the required fee, shall be filed with the code official on a form furnished for that purpose and shall contain a general description of the work and its location. The application shall be signed by the ~~owner or an authorized agent~~ mechanical licensee. The permit application shall indicate the proposed *occupancy* of all parts of the building and of that portion of the site or lot, if any, not covered by the building or structure and shall contain other such information required by the code official. The application shall be completed by the City of Rockford mechanical licensee. In the event more than one licensee is employed by a firm or corporation, the licensee applying shall be included on the application.

**Exception:** Where an owner-occupant is permitted to perform mechanical work by section 111.5, an owner-occupant application shall be made to the code official on form provided by the code official.

(5) Section 106.4.3 is amended as follows:

**106.4.3 Expiration.** Every permit issued by the code official 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 180 days from the date 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 180 days. The code official may reduce the expiration time for the permit if there is an outstanding order to correct a code violation or there have been previous permits issued for the same work. Before such work recommences, a new permit shall be first obtained and the fee, therefore, shall be ~~one-half~~ not be more than the amount required for a new permit for such work. ~~provided no charges have been made or will be made in the original construction documents for such work, and provide further that such suspension or abandonment has not exceeded one year.~~

(6) Section 106.4.4 is amended as follows:

**106.4.4 Extensions.** A permittee holding an unexpired permit shall have the right to apply for an extension of the time within which permittee will commence work under that permit when work is unable to be commenced within the time required by this section for good and satisfactory reasons. The code official shall extend the time for action by the permittee for a period not exceeding 180 days if there is reasonable cause. A permit shall not be extended more than once. The fee for an extension shall be ~~one-half~~ not more than the amount required for a new permit for such work.

(7) Section 106.5.1 is deleted and replaced with the following:

**106.5.1 Work commencing before permit issuance.** When a permit is required by this code, and work is started or proceeded fees shall be in accordance with the Fee Schedule of the City of Rockford Code of Ordinances. No permit can be issued for any person, company or contractor until

any outstanding permit fines/fees have been paid in full.

(8) Section 106.5.2 is amended as follows:

106.5.2 **Fee Schedule.** The fees for work shall be as ~~indicated in the following schedule~~ set forth in the Fee Schedule of the City of Rockford Code of Ordinances.

(9) Section 106.5.3 is deleted and replaced with the following:

**106.5.3. Refunds.** No permit fees shall be refunded.

(10) Section 108.4 is amended as follows:

**108.4 Violation penalties.** Persons who shall violate a provision of this code or who shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical ~~work~~ equipment or systems in violation of *approved construction documents* or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties within the limits provided in state and local laws and guilty of a [SPECIFY OFFENSE], punishable by a fine of not less than \$50 and not more than \$750. dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

(11) Section 108.5 is amended as follows:

**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 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 for a fine of not ~~less than [AMOUNT] dollars or~~ more than \$750.00 dollars.

(12) Section 109.2 is amended as follows:

**109.2 Membership of board.** The board of appeals (Mechanical Board) shall consist of ~~five~~ seven members appointed by the chief appointing authority as follows: ~~one two (2)~~ for five (5) years; ~~one two (2)~~ for four (4) years; one (1) for three (3) years; one (1) for two (2) years; and one (1) for one (1) year. Thereafter, each new member shall serve for five (5) years or until a successor has been appointed.

(13) Section 109.2.1 is deleted and replaced as follows:

**109.2.1 Qualifications.** The members of the board shall consist of one registered Professional Engineer, one licensed plumbing contractor, one license holder from hydronic heating-cooling, one license holder for refrigeration, one license holder from warm-air heating-cooling and two representatives of the mechanical industry with at least ten years of experience in mechanical fields, five of which shall have been in responsible charge of work.

(14) Section 109.4.1 is deleted and replaced as follows:

**109.4.1 Procedures. The procedures of the board shall be as follows:**

1. The board shall adopt reasonable rules and regulations for procedure of its investigations and hearings in conformity with this code, and shall keep a file of its minutes in the office of the Construction and Development Services Division of the Community Development Department. The board may recommend to the council such new legislation as may be considered necessary. It shall be the responsibility of the chairman of the board to notify the board of meetings in writing at least twenty-four (24) hours in advance of the time of the meeting.
2. The board shall have the authority to determine the suitability of alternate material or equipment, and to permit deviations from the provisions of the code if it appears that such provisions do not cover the point raised or that manifest injustice will be done. A special tag setting forth this deviation shall be issued to the owner and shall be required to be permanently posted in a conspicuous

location in the mechanical equipment room on the premises.

3. Any person whose application for a permit has been refused or who may consider the provisions of this code do not cover the point raised in connection with the work contemplated by him, or that any particular provision would cause a manifest injury to be done to him, may appeal to the board by serving written notice on the inspector. Such notice shall be at once transmitted to the board, and the board shall arrange for a hearing on the particular point raised. Such hearing shall be held within seven (7) days, and the decision of the board shall be given within twelve (12) days after serving notice on the inspector. Any action of the board varying application of this code must be made by a concurring vote of the majority of the board, (four (4) members), and issued in writing.
4. It shall be the duty of the board to receive and consider suggestions for revision and/or improvements of the mechanical code; and if in the board's judgment, such suggestions will contribute to the objectives of the code, make such revisions as are deemed necessary and submit them to the City Council for consideration.

(15) Section 109.6 is amended as follows:

**109.6 Board decision.** The board shall modify or reverse the decision of the code official by concurring vote of ~~three~~ a majority of members present. Quorum of the board shall be four (4) members.

(16) Section 111 GENERAL LICENSING RESPONSIBILITIES is added as follows:

**SECTION 111**  
**GENERAL LICENSING RESPONSIBILITIES**

**111.1 Scope.** The board shall examine applications for licenses involving any installation of work governed by the provisions of this code.

(17) Section 112 MECHANICAL LICENSES is added as follows:

**SECTION 112**  
**MECHANICAL LICENSES**

**112.1 License required.** It shall be unlawful for any person, firm, or corporation to act, engage, or to otherwise represent themselves as a Mechanical Contractor unless an authorized representative of such person, firm, or corporation shall first obtain and keep in full effect a license as provided in this code.

**112.2 Application for permits by license holder.** It shall be unlawful for any person, firm, or corporation to install, erect, alter, repair, service, reset, or replace any work, as defined in this code, unless said person or some member of such firm or corporation shall first have obtained and kept in full effect, the required license and is a full time employee of that firm, or corporation and actively engaged in the business of that firm on a daily basis, and who shall be the authorized representative of the person, firm or corporation in all matters pertaining to this code.

In the event that said license holder leaves the employment of a firm or corporation the license holder shall inform the City of Rockford Building Department, Mechanical Division within five (5) working days. Failure to notify the City of Rockford Building Department, Mechanical Division in said time shall result in forfeiture of any and all Mechanical Licenses.

**112.3 Violations.** Any person not duly licensed by the City of Rockford who shall attempt Mechanical Contracting in the City of Rockford; any person (1) representing or attempting to file as his own the license certificate of another; (2) who shall give false or forged evidence of any kind to the board or any member thereof in acquiring a certificate or license; (3) who falsely shall impersonate another; (4) who shall use an expired or revoked certificate or license; or (5) any person not licensed hereunder shall be guilty of a misdemeanor and it shall be the duty of the code official, or other authorized agent, to report such acts to the board who will review the matter and if it is found that sufficient evidence is produced to substantiate a prosecution, then the board shall instruct the code official or other authorized agent to report such acts to the City Attorney and to assist the attorney or others in prosecuting any case which may come to his notice.

**112.4 Grace period without license holder.** Should the authorized representative holder of a City of Rockford mechanical license terminate his employment, or partnership with such person, firm or corporation, a new authorized holder of such a license must be obtained within thirty (30) days thereafter.

**112.5 Owner-occupant exemption to license requirement.** Work being performed by the owner-occupant of a single family dwelling or owner of a single family dwelling under construction for his or her occupancy upon completion is permitted to plan, install, alter and repair the mechanical and gas piping systems of such dwelling without a license provided that required permits are obtained and such systems comply with the requirements of this code. Any work being performed by other than the owner-occupant shall be performed by a City of Rockford licensed mechanical contractor.

**112.6 Classes of license.** There shall be eight (8) classes of licenses issued pertaining to heating, cooling, ventilating, hydronics, solar systems, refrigeration, gas piping and fireplaces in the City of Rockford.

**112.6.1 Class A.** Class "A" license shall be issued to a person desiring to enter into the business of installing, altering, or servicing warm air heating, air conditioning, ventilating equipment and prefabricated fireplaces.

**Class A1.** Class "A1" license shall be issued to a person desiring to enter into the business of performing work on detached one (1) and two (2) family dwellings and townhouses not more than three stories above-grade in height with a separate means of egress and their accessory structures constructed under the International Residential Code ~~on standalone single family dwelling~~, on warm air heating and cooling (air conditioning) installations, and service replacements. The "A1" license excludes hotels, motels, and any housing units as established by the *International Building Code* (such as group homes, boarding houses, halfway houses and similar uses).

**112.6.2 Class B.** Class "B" license shall be issued to a person desiring to enter into the

business of installing, altering, or servicing hydronic or steam heating and solar systems.

**112.6.3 Class C.** An existing Class "C" license issued to a person for repair of gas, oil, or coal conversion automatic equipment and controls in existing heating plants, and service, clean, and repair above-mentioned equipment shall be permitted to be renewed. No future Class "C" license will be issued.

**112.6.4 Class D.** Class "D" license shall be issued to a person, desiring to enter into the business of installing, altering, or servicing refrigeration piping of kitchen equipment or equivalent such as: walk in coolers, walk in freezers, dairy cases, ice machines, and the refrigerant piping of comfort cooling equipment only.

**112.6.5 Class E.** Class "E" license shall be issued to a person, desiring to enter into the business of installing, altering, or servicing any or all of the consumer gas piping from the point of delivery to the gas cock preceding the appliance.

**Class E1.** Class "E1" license shall be issued to a person desiring to enter into installation, altering, or servicing of any or all of the consumer gas piping from the point of delivery(meter) to the gas shut-off valve immediately preceding the appliance on detached one (1) and two (2) family dwellings and townhouses not more than three stories above-grade in height with a separate means of egress and their accessory structures constructed under the International Residential Code and provided it is under one P.S.I.G. and less than 2 ½" inside diameter pipe. The "E1" license excludes hotels, motels, and any housing units as established by the *International Building Code* (such as group homes, boarding houses, halfway houses and similar uses).

**112.6.6 Class F.** Class "F" license shall be issued to a person desiring to enter into the business of installing prefabricated fireplaces, gas logs, Franklin stoves, inside barbecue burners or pits, and inside charcoal pits and includes servicing of all such equipment.

**112.6.7 Geothermal systems.** A person desiring to enter into the business of installing, altering, or servicing geothermal systems shall possess active class "A" and "B" licenses.

### **112.7 License fees.**

**112.7.1 Each class of license.** The fee for each class of license "A" through "F" inclusive shall be according to City of Rockford fee schedule.

**112.7.2 Active license renewal.** The renewal fee for a license in the second and subsequent years shall be according to the City of Rockford Fee schedule.

**112.7.3 Inactive license renewal.** The renewal fee for inactive license shall be according to the City of Rockford Fee schedule.

**112.8 License issuance.** After an applicant for Mechanical license fully complies with the provisions of this article and passes an examination required by M-124.2, and upon receipt of the appropriate license fees to be paid within 30 working days, and a license and permit bond that shall contain both the license holder's name and firm or corporation name, and be in the penal sum of twenty-five thousand dollars bond (\$25,000.00) with surety to the authorized authority, conditioned for the faithful performance in accordance with the provisions of code for all work performed under said license, the board shall instruct the code official to issue a license authorizing the licensee to conduct a business for the branch or branches for which he is qualified.

### **112.9 Issuance to individual, not transferable; renewal generally; inactive status:**

**112.9.1 Non transferable.** The license herein provided shall be issued to an individual and is not transferable. If the individual who has been acting as representative of the firm or corporation, and is no longer a full time employee of said firm or corporation, the firm or corporation must have a new license holder as provided in Section 111.0.

**112.9.2 Renewal.** A license shall be renewable without examination and shall remain in force

until expiration unless revoked by the board for cause.

**112.9.3 Inactive status.** A person, either individually as a member of a firm or as an officer or employee holding a license, may apply for an inactive status if the following conditions are satisfied:

1. After one year in good standing with proper bonding, a licensee may establish an inactive status if he is not actively engaged in the business of installing and or repairing mechanical work covered by his license or where more than one person holds an active license for the firm.
2. The inactive licensee shall pay a renewal fee of twenty five dollars (\$25.00) per year to maintain his inactive status.
3. The inactive status cannot be renewed for more than a period of five years.

**112.9.4 City Employees.** City employees may maintain inactive status as long as they are employed by the City of Rockford, and are not required to pay a renewal fee.

**112.10 Expiration date.** Every license shall expire on the first day of January following the date of issue, and may be renewed upon payment of the renewal fee (and posting of current license and permit bond) appertaining to that class of license, not later than the first day of January of the year in which the license expires. Should any person fail to renew his license by January 10, he shall pay a penalty of one dollar (\$1.00) for each day that the license is past due.

**112.11 Suspension and revocation.** The board shall have the authority to suspend or revoke for cause any license granted under this code for violation thereof, after due hearing and upon notice to the party charged. Such notice shall be in writing and served by certified mail with returned receipt card to the party charged, mailing to be not less than five (5) days prior to the hearing.

**112.12 Responsibility of employer and Mechanical license holder for violation.** In case of a firm or corporation employing a Mechanical license holder, both such persons, firms, or corporations, and the license holder shall be

responsible for any and all violations created by them under this code.

**112.13 Service on equipment installed.** Every employer of a license holder shall offer the purchaser, and have available, twenty-four (24) hours service on the equipment installed for the warranty period.

(18) Section 113 Examinations is hereby added:

### **SECTION 113 EXAMINATIONS**

**113.1 Qualification of applicant.** All applicants for a license shall be of legal age, and shall:

1. Demonstrate at least five (5) years of active experience in the trade for the class of license he is applying for (as specified in and defined in this code) or
2. have a degree in related mechanical technologies from an accredited university or college for the class of license he is applying for plus one (1) year of practical experience in that class, or
3. have completed a registered apprenticeship program recognized by the mechanical board for the class of license he is applying for, and shall pass an examination as provided by the mechanical board.

### **113.2 License examination general:**

**113.2.1 Examination dates.** Examination for license shall be given by the board on the second Thursday of every month. The Board by a majority of 2/3 vote may establish additional or special test dates. The applicant shall test or re-test within 90 calendar days of approval to test or will have to re-apply.

**113.2.2 Application for examination.** An application shall be filed with the code official on the second Thursday of each month. The application forms may be obtained from the Building Department, City Hall Building, Rockford, Illinois.

**113.2.3 Re-examination.** If the applicant for a license fails in his examination, he may take the examination the next time it is given, but if on re-examination he fails, he then must wait (6) months from the time of the last examination before he can again take the examination.

**113.3 Passing grade, record of examination applications.** A passing grade on the license examination required by section M-123.2 shall be seventy-five percent (75%) of a possible one hundred percent (100%). The board shall keep an accurate record of all applications and examinations. Upon notification of a passing grade, the applicant has 30 calendar days to submit all appropriate bonds and fees; failure to do so shall negate application and test results.

(19) **Section 202 is amended as follows:**

Section 202 Definitions

**LIGHT-DUTY COOKING APPLIANCE.** Light-duty cooking appliances include gas and electric ovens (including standard, bake, roasting, revolving, retherm, convection, combination convection/steamer, countertop conveyerized baking/finishing, deck and pastry), electric and gas steam-jacketed kettles, electric and gas pasta cookers, electric and gas compartment steamers (both pressure and atmospheric) and electric and gas cheesemelters or other countertop heating appliance such a”presses” or “panini” type style appliances.

(20) Section 303.1.1 is added as follow:

**303.1.1 Modular homes.** All installations and equipment shall comply with all requirements and conform with all codes adopted by the City of Rockford and the State of Illinois Regulations of Factory Built Structures.

(21) Section 304.1.1 is added as follows:

**304.1.1 Return Air.** Return air shall be taken from all rooms including manufactured or modular homes and buildings; except unoccupied storage; kitchen; garages; and bathrooms.

(22) Section 306.5.3 is added as follows:

**306.5.3 Ladder Access Provided.** The owner of the building shall be responsible for providing access to the permanent ladder at any time servicing is required.

(23) Section 309.1.1 is added as follows:

**[B] 309.1 Space-heating systems.** Interior spaces intended for human occupancy, including all occupied spaces, occupied rooms and all bathrooms, shall be provided with active or passive space-heating systems capable of maintaining a minimum indoor temperature of 68°F (20°C) at a point 3 feet (914 mm) above floor on the design heating day. The installation of portable space heaters shall not be used to achieve compliance with this section.

**Exception:** Interior spaces where the primary purpose is not associated with human comfort.

(24) Section 401.2 is amended as follows:

**[B] 401.2 Ventilation required.** Every occupied space shall be ventilated by ~~natural means~~ mechanical means in accordance with Section 402 or 403. ~~or by mechanical~~ In addition, ventilation shall be provided by natural means in accordance with Section 403 402. The ventilation rates have been first satisfied by mechanical means. Refer to Amendments to Section 402.1 for the mandatory mechanical air supply requirements.

(25) Section 402.1 is amended as follows:

**[B] 402.1 Natural ventilation.** Natural ventilation of an occupied space shall be through windows, doors, louvers or other openings to the outdoors. The operating mechanism for such openings shall be provided with ready access so that the openings are readily controllable by the building occupants. In addition, make up air, dilution air and ventilation air must be provided by the mechanical air supply system. The system shall supply adequate supply of ventilation, dilution and make up air in addition to make up air.

(26) Section 508.1 is amended as follows:

**508.1 Makeup air.** Makeup air shall be supplied during the operation of commercial kitchen exhaust systems that are provided for commercial cooking appliances. The amount of makeup air supplied to the building from all sources shall be approximately equal to the amount of exhaust air for all exhaust systems for the building. The

*makeup air* shall not reduce the effectiveness of the exhaust system. *Makeup air* shall be provided by ~~gravity or mechanical means or both~~. Mechanical *makeup air* systems shall be automatically controlled to start and operate simultaneously with the exhaust system. *Makeup air* intake opening locations shall comply with Section 401.4.

(27) Section 603.6.1.1 is amended as follows:

**603.6.1.1 Duct length.** Flexible air ducts shall ~~not~~ be limited in length to 8 feet overall from termination point and contain no more than the equivalent of one 90 degree turn with no offset greater than 45 degrees. All flexible air ducts shall be of the insulated type. Flexible ducts shall only be used for branches.

(28) Section 603.6.2.1 is amended as follows:

**603.6.2.1 Connector length.** Flexible air connectors shall be limited in length to ~~14 feet~~ 8 feet overall from termination point and contain no more than the equivalent of one 90 degree turn with no offset greater than 45 degrees. All flexible air connectors shall be of the insulated type. Flexible ducts shall only be used for branches.

(29) Section 801.2.2 is added as follows:

**801.2.2 Fuel burning appliances.** Every fuel burning appliance utilizing a vent material other than metal shall be marked/labeled every 36 inches so as to distinguish it from plumbing piping.

(30) Section 805.1 is amended as follows:

**805.1 Listing and clearances.** Factory-built *chimneys* shall be *listed* and *labeled* and shall be installed and terminated in accordance with the manufacturer's instructions. Where, upon inspection, listing specifications and labeling is not present or visible, combustible materials within 18 inches of the chimney shall be protected with 5/8" type X gypsum board or equivalent.

(31) Section 903.1 is amended as follows:

**903.1 General and clearances.** Factory-built fireplaces shall be *listed* and *labeled* and shall be

installed in accordance with the conditions of the listing. Factory-built fireplaces shall be tested in accordance with UL 127. Where, upon inspection, listing specifications and labeling is not present or visible, combustible materials within 36 inches of the fireplace shall be protected with 5/8" type X gypsum board or equivalent.

(32) **Floor Furnaces.** Delete Section 910 Floor Furnaces in its entirety.

(33) Section 928 is added as follows:

**SECTION 928**  
**HEAT EXCHANGER REPAIR**

**928.1 Furnace cement or welding.** The use of furnace cement or welding for the repair of furnace heat exchangers is prohibited.

(34) Section 929 is added as follows:

**SECTION 929**  
**ELECTRIC DUCT HEATERS**

**929.1 General.** Electric duct heaters shall be equipped with an approved automatic reset air outlet temperature-limit control that will limit the outlet air temperature to not more than 200 degrees F. The electric elements of the heater shall be equipped with fusible links or a manual reset temperature-limit control that will prevent air temperature in the immediate vicinity of the heating elements from exceeding 250 degrees F.

(35) Section 930 is added as follows:

**SECTION 930**  
**UNVENTED ROOM HEATERS**

**930.1 General.** Unvented room heaters and/or fireplaces are prohibited.

(36) Section 1006.7.1 added as follow:

**1006.7.1 Multiple boiler installation.** Where the operating temperature actuated control may be installed in a header of other point common to all boilers, and can be isolated from any and all of the boilers, there shall be at least one high-limit-temperature-actuated combustion control mounted on each boiler.

(37) Section 1007.1.1 is added as follows:

**1007.1.1 Scope.** All boilers with heat input greater than 400,000 BTUH requiring forced circulation to prevent overheating of the coils or tubes shall have a flow-sensing device installed in the outlet piping in addition the low-water fuel cutoff required above to automatically cut off the fuel supply when the circulating flow is interrupted.

(38) Appendix "B" is hereby deleted.