

MEMORANDUM

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

To: Thomas Thomas, City Manager

SUBJECT: Adoption of 2009 International Building Codes

DATE: 2 Nov 2011

The Chief Building Official, Fire Marshal, and Inspectors met jointly with our counterparts in the extended metropolitan area to review the 2009 model codes published by the International Code Council (ICC) and the National Fire Protection Association (NFPA) 2008 National Electrical Code (NEC). We also coordinated and agreed upon such local (regional) revisions and amendments as were deemed necessary. The aim was to adopt as identical codes and provisions as possible (excepting those areas where state laws differ). We also jointly developed handouts to clarify and illustrate various concepts and requirements and published those standardized handouts on the website of the regional chapter of Code Enforcement Officials, Illowa ICC. These handouts in function in a similar fashion to the City Engineer's "Standard Drawings" but have the additional benefit of being devised, reviewed, and accepted by all the local jurisdictions.

The International Building Code (IBC) includes by direct reference the International Fire, Mechanical, Fuel Gas, Plumbing, Energy, and Property Maintenance Codes. The amendments proposed for all recommended codes are attached at enclosures 1 – 10. Enclosure 10 addresses the IFC.

Subsequently, the various City of Rock Island Boards of Appeals that are charged with the building codes reviewed and endorsed the adoption of the codes as proposed.

The following area jurisdictions have already adopted the 2009 ICC codes with the agreed-upon amendments: Rock Island County, East Moline, Silvis, Geneseo, Scott County, Bettendorf, and Blue Grass.

The Insurance Services Organization (ISO) conducts quadrennial risk audits called the Building Codes Effectiveness Grading Survey (BCEGS) and rates cities on a scale of 10 to 1 (1 being the best rating). A post-Katrina change to the evaluation is that if a city is using a code older than one-back from current, whatever the earned rating is will be dropped one full level. Since the 2012 codes were released this summer, that means cities using codes older than the 2009 codes will be penalized one full rating.

The BCEGS rating is an insurance risk measure. Insurance companies that use the ISO ratings use the BCEGS rating in their (corporate secret) rate calculations, which has specific outcomes for specific companies. Some insurance companies do not use the ISO ratings but use a similar assessment process with internal researchers to achieve the same purpose. An exact dollar cost of losing an ISO rating is not available, as the process is a proprietary calculation from company to company.

RECOMMENDATION:

Recommend that the City of Rock Island adopt the 2009 International Building Code[®] with amendments, The 2009 International Existing Building Code[®], the 2009 International Residential Code[®] with amendments, the current Illinois Plumbing Code with amendments, and the 2008 National Electrical Code[®] with amendments, and refer to the City Attorney for an ordinance.

SUBMITTED BY: Thomas G. Ayers, Chief Building Official
Greg Champagne, Community & Economic Development Director
Jeff D. Hindman, Fire Marshal
James Fobert, Fire Chief

Enclosure 1 – Amendments to 2009 IBC

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

101.2 Scope Add “1.” To exception and add exception: “2. Existing buildings undergoing repair, alternations, additions, or change of occupancy shall be permitted to comply with the *International Existing Building Code*.”

101.4.3 PLUMBING: The most recent edition of the *Illinois Plumbing Code* shall apply to the installation, alteration, repair, relocation, addition, replacement, and maintenance of plumbing systems regulated by the *Illinois Plumbing Code*. The *International Plumbing Code* and the *International Fuel Gas Code* shall apply to any and all plumbing and piping systems not regulated by the *Illinois Plumbing Code*. In addition, ANY structure in which a building drain is installed shall have at least one (1) vent stack carried through the roof and increased to a minimum size of Four Inches (4”) at a point one foot (1’) below the roof line.

1612.3 Establishment of flood hazard areas. Replace *[INSERT NAME OF JURISDICTION]* with “City of Rock Island” and replace *[INSERT DATE OF ISSUANCE]* with “5 April 2010”

3412.2 Applicability. Replace *[DATE TO BE INSERTED... ... WITHIN THE JURISDICTION]* with “7 December 2011”

Adopt the following Appendices:

C Group U – Agricultural Buildings

E SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS

F RODENT PROOFING

G FLOOD-RESISTANT CONSTRUCTION

H SIGNS

I PATIO COVERS

K ADMINISTRATIVE PROVISIONS – modified as follows: Strike **Section K111 Electrical Provisions** in its entirety.

Enclosure 2 – Amendments to 2009 IRC

R101.1 Title. Replace [NAME OF JURISDICTION] with “City of Rock Island”

R101.2 Scope, Add “1.” to published exception. Add exception: “2. The most recent edition of the *Illinois Plumbing Code* shall apply to the installation, alteration, repair, relocation, addition, replacement, and maintenance of plumbing systems as stipulated by the *Illinois Plumbing Code*. The provisions of the *International Residential Code* shall apply to all plumbing and piping systems not covered by the *Illinois Plumbing Code*.” In addition, ANY structure in which a building drain is installed shall have at least one (1) vent stack carried through the roof and increased to a minimum size of Four Inches (4”) at a point one foot (1’) below the roof line.

R105.2 Work exempt from permit: Change (1) 120 square feet; **Delete** (10)

Table R301.2(1) Climatic and Geographic Criteria

Ground Snow Load	Wind Design		Seismic Design Category ^f	Subject to Damage From		
	Speed ^d (mph)	Topographic Effects ^k		Weathering ^a	Frost line depth ^b	Termite ^c
$p_s = 30$ psf, except that calculations for additional drift loads shall use a ground snow load $p_g = 25$ psf	90	YES	A	SEVERE	42”	Moderate to Heavy

Winter Design Temp ^e	Ice Barrier Underlayment Required ^h	Flood Hazards ^g	Air Freezing Index ⁱ	Mean Annual Temp ^j
-4° F	YES	Initial NFIP 7/10/1971 Community# 175171 Current FIRM 4/5/2010	2000	50.5° F

R 302.2 Townhouses

Change Exception: first sentence to read:

A common 2-hour fire resistance-rated assembly tested in accordance with ASTM E119 or UL263 is permitted for townhouses if such walls do not contain plumbing/mechanical equipment, ducts or vents in common walls.

R305 Ceiling height

Add: Exception 3.

Ceilings may have projections to within 6 feet 6 inches of the finished floor for area not to exceed 50% of the room in which the projection is in.

R310.2.1 Ladders and steps (In Egress Wells)

Add: Steps shall have a minimum width of 12 inches, a minimum tread depth of 5 inches, and a maximum riser height of 24 inches.

R313.2 One- and Two- Family Dwelling Automatic Fire Systems. Change- January 1st, 2011 to January 1st, 2013.

R315.1 Carbon Monoxide Alarms

Change: For new construction, an approved carbon monoxide alarm may be installed inside each separate sleeping area, or, if installed outside of each separate sleeping area must be within 15 feet of the door to the sleeping area in dwelling units within which fuel-fired appliances are installed and in dwelling units that have an attached garage.

R322 Flood-Resistant Construction. Delete text in its entirety and add: See The City of Rock Island Code of Ordinances Chapter 11 Planning and Redevelopment, Article IV Flood Hazards.

R403 footings: Delete table R403.1, and replace with the following table R403.1

# of floors	Wall Thickness Concrete	Wall Thickness Masonry	Width of footing	Thickness of footing	Depth of footing
1	8"	8"	16"	8"	42"
2	8"	8"	16"	8"	42"
3	10"	12"	20"	12"	42"

R403.1.1 (footings) General:

Change: In the 3rd sentence, change 6 inches (152mm) to 8inches (200mm).

R403.1.1.1 Decks footings: (add section) **R403.1.1.1.1** Deck footings NOT supporting a roof or over head structure shall be a minimum 12 inches in diameter and 42 inches below finished grade.

R403.1.1.1.2 Covered deck and room addition footings:

All covered decks, screened porches; three season rooms, four season rooms, room additions, etc., shall have one of the following:

1. Pier footings designed by a design professional.
2. 12 inch wide reinforced trench footing 42 inches in depth.
3. Spread footings 42 inches in depth with a minimum 8 inch masonry wall or concrete foundation wall as per **Figure 404.1.3.1 (b)**

Add section R404.1.3.1 Minimum Reinforcing Requirements:

1. For concrete walls up to 8' (eight feet) in height, the design requirements of **Figure 404.1.3.1 (b)** may be met in lieu of engineered drawings.
2. For Concrete walls over 8' (eight feet) to 9' (nine feet) in height, the design requirements of **Figure 404.1.3.1 (a)** may be met in lieu of engineered drawings.

All other concrete walls shall be designed in accordance with standard engineering practice and bear the stamp of an Illinois Licensed design professional.

P2603.6.1 Sewer Depth. Replace *[NUMBER]* with "42" in both locations.

Part IV Energy Conservation: Delete everything after **N1101.2 Compliance.** Replace text of section N1101.2 Compliance with: "Compliance shall be demonstrated by meeting the requirements of the International Energy Conservation Code."

Part VIII Electrical, Chapters 34- 43 Chapter 34 General Requirements.

(Add) Where the 2008 National Electric Code NFPA 70 as referenced is amended by this Resolution, such amendments are to be interpreted as a minimum requirement for this Part. Requirements for registration with the jurisdiction, permits, fees and violations/penalties of this 2009 International Residential Code hereby apply to the 2008 National Electric Code NFPA 70.

E3406.3 Minimum Size of Conductors.

(Change) 14 AWG Copper to 12 AWG Copper.

(Change) 12 AWG Aluminum to 10 AWG Aluminum.

(Add) In ALL instances, where this code or the NFPA70 references 14 AWG Copper, 12 AWG Copper shall apply. In ALL instances, where this code or the NFPA70 references 12 AWG Aluminum to 10 AWG Aluminum shall apply.

Appendices: **Adopt as noted;**

A- Sizing and Capacities of Gas Piping

B- Sizing of venting systems serving appliances equipped with draft hoods, Category 1 appliances, and

appliances listed for type B vents

C- Exit terminals of mechanical draft and direct-vent venting systems

D-Recommended Procedure for inspection of an existing appliance installation

E-Manufactured housing used as a dwelling

F-Radon Control Methods with the following amendments:

AF103.4.4 –The second sentence must be entirely deleted. (**Delete:** “sumps used as the suction point in a sub slab depressurization system shall have a lid designed to accommodate the vent pipe.”)

AF103.5.3 – In the second sentence delete “the roof” and insert “above the highest eave of the house”.

AF103.6.1 –

First paragraph:

- Delete ABS (not allowed)
- Add “schedule 40” prior to PVC
- The last sentence must be amended to read: “Alternatively, the 3-inch (76 mm) pipe shall be inserted directly above the interior drain tile loop and not tied into it.”

Second paragraph:

- In the first sentence delete “surface of the roof” and insert “highest eave of the house”

AF103.6.2 – The last sentence should read: “ Vent pipes shall connect to a single vent that terminates at least 12” above the highest eave of the house or each individual vent pipe shall terminate separately at least 12” above the highest eave of the house.”

AF103.10 – The second sentence must read as follows: “Each radon vent pipe shall terminate at least 12” above the highest eave of the house or shall be connected to a single vent that terminates at least 12” above the highest eave of the house”

G-Swimming Pools, Spas, Hot tubs

H-Patio Covers

J- Existing Buildings and Structures

K-Sound transmission

M-Home Day care- R-3 Occupancy

Q-ICC- IRC Electrical provisions/NEC cross reference



Building Guide

ILLOWA Chapter of ICC

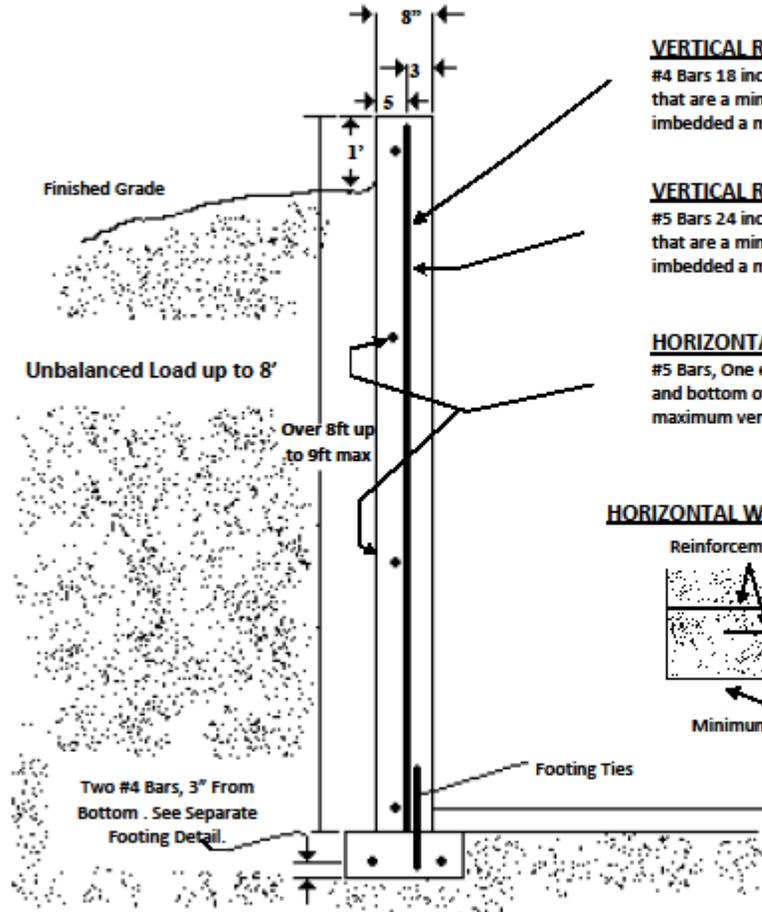
FOUNDATION WALL REINFORCEMENT

All Foundation Walls over 8FT to 9FT in height with up to 8' Unbalanced load



IRC Figure 404.1.3.1 (a)

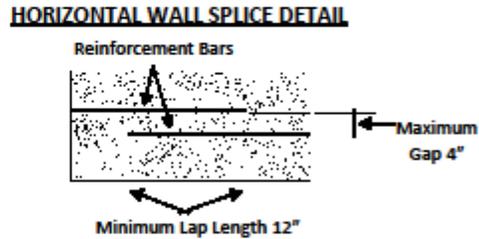
Note: Wall must extend 6" above finished Grade, Walls over 9 ft or with more than 8 ft of unbalanced load require stamped engineered drawings.



VERTICAL REINFORCEMENT- OPTION 1
 #4 Bars 18 inches on center tied to #4 footing ties that are a minimum of 18 inches long and imbedded a minimum of 6 inches into the footing

VERTICAL REINFORCEMENT- OPTION 2
 #5 Bars 24 inches on center tied to #5 footing ties that are a minimum of 18 inches long and imbedded a minimum of 6 inches into the footing

HORIZONTAL REINFORCEMENT
 #5 Bars, One each within 12 inches of the top and bottom of the wall, and as needed with maximum vertical spacing of 24".



DESIGN LOADS: Soil Weight: 120 PCF
 Lateral Liquid Equivalent Soil Pressure: 50PCF
 Soil Level One Foot Below Top of Wall



Building Guide

ILLOWA Chapter of ICC

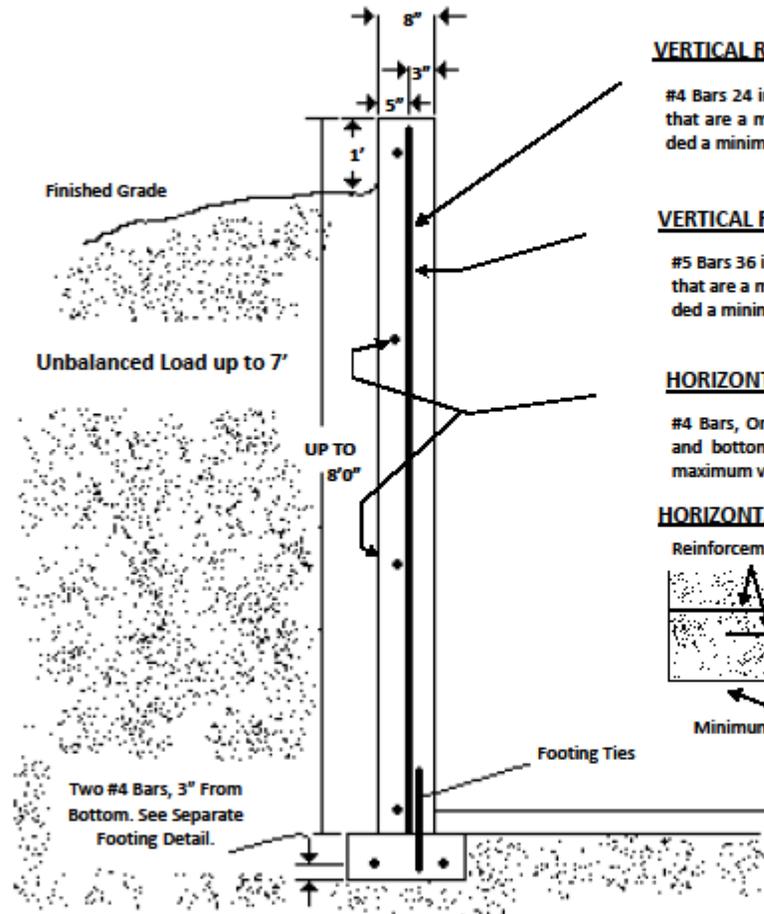
FOUNDATION WALL REINFORCEMENT

All Foundation Walls up to 8 FT in height
with up to 7 ft Unbalanced Load



IRC Figure 404.1.3.1 (b)

Note: Wall must extend 6" above finished Grade



VERTICAL REINFORCEMENT- OPTION 1

#4 Bars 24 inches on center tied to #4 footing ties that are a minimum of 18 inches long and imbedded a minimum of 6 inches into the footing

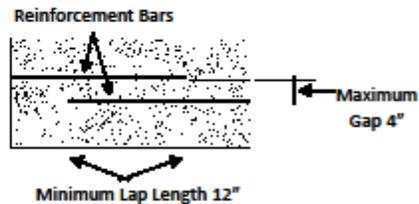
VERTICAL REINFORCEMENT- OPTION 2

#5 Bars 36 inches on center tied to #5 footing ties that are a minimum of 18 inches long and imbedded a minimum of 6 inches into the footing

HORIZONTAL REINFORCEMENT

#4 Bars, One each within 12 inches of the top and bottom of the wall, and as needed with maximum vertical spacing of 24"

HORIZONTAL WALL SPLICE DETAIL



DESIGN LOADS: Soil Weight: 120 PCF
Lateral Liquid Equivalent Soil Pressure: 50PCF
Soil Level One Foot Below Top of Wall

Enclosure 3 – Amendments to 2009 IEBC

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

1301.2 Applicability. Replace *[DATE TO BE INSERTED... ... WITHIN THE JURISDICTION]* with “7 December 2011”

Enclosure 4 – Amendments to 2009 IECC

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

Enclosure 5 – Amendments to 2009 IPMC

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

302.4 Weeds. Insert (10”)

304.14 Insect Screens Insert “April 1st to November 1st”

404.4.1 Room area. Add and every bedroom occupied by more than one person shall contain at least 50 square feet (4.6 m2) of floor area for each occupant thereof.

404.5 Overcrowding. Replace text with Dwelling units shall not be occupied by more occupants than permitted by the minimum area requirements of Table 404.5.

Add new table and text as follows:

**TABLE 404.5
MINIMUM AREA REQUIREMENTS**

Space	MINIMUM AREA IN SQUARE FEET		
	1-2 occupants	3-5 occupants	6 or more occupants
Living room ^{a,b}	No requirements	120	150
Dining room ^{a,b}	No requirements	80	100
Bedrooms	Shall comply with Section 404.4.1		

a. See Section 404.5.2 for combined living room/dining room spaces.

b. See Section 404.5.1 for limitations on determining the minimum occupancy area for sleeping purposes.

404.5.1 Sleeping area. The minimum occupancy area required by Table 404.5 shall not be included as a sleeping area in determining the minimum occupancy area for sleeping purposes. All sleeping areas shall comply with Section 404.4.

404.5.2 Combined spaces. Combined living room and dining room spaces shall comply with the requirements of Table 404.5 if the total area is equal to that required for separate rooms and if the space is located so as to function as a combination living room/dining room.

602.3 Heat supply Insert “October 1st to May 15th”

602.4 Occupiable work spaces Insert “October 1st to May 15th”

ADD NEW TEXT AS FOLLOWS:

603.1.1 Property owners are required to have annual carbon monoxide tests of furnaces performed for all fuel-burning furnaces that are 10 years old or older and for all fuel-burning furnaces that have been inoperative for one year or longer. Tests must be performed by a properly certified and registered mechanical contractor. Owners shall immediately notify Inspection Division of failed tests. Owners shall provide a legible certified copy of successful test results to Code official not later than 30 days after the test.

Exception: A carbon monoxide detector installed within 10' of furnace will meet the intent of the annual carbon monoxide test requirement.

ADD NEW TEXT AS FOLLOWS:

603.1.2: Every dwelling unit shall be equipped with at least one approved carbon monoxide alarm in an operating condition within 15 feet of every room used for sleeping purposes. Carbon monoxide detector/smoke detector alarms may be installed only if the combined unit provides different alarm tones for the carbon monoxide detection and the smoke detection.

Every structure that contains more than one dwelling unit shall contain at least one approved carbon monoxide alarm in operating condition within 15 feet of every room used for sleeping purposes.

The required carbon monoxide detector/alarm is permitted to be solely battery operated in buildings where no construction is taking place, buildings that are not served from a commercial power source and in existing areas of buildings undergoing alterations or repairs that do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for building wiring without the removal of interior finishes.

Exception: Carbon Monoxide Detectors are not required if:

A residential unit is in a building that does not rely on combustion of fossil fuel for heat or hot water and the building is not connected in any way to a garage and the building is not contiguous to a source of carbon monoxide.

Add new text as follows: 603.7 Existing HVAC systems. Refrigerant circuit access ports shall be provided with locking-type tamper-resistant caps or comparable device.

Replace 605.2 Receptacles. Every habitable space in a dwelling shall contain at least two separate and remote receptacle outlets. Every laundry area shall contain at least one grounded-type receptacle or a receptacle with a ground fault circuit interrupter.

Add 605.2.1 Bathrooms in Residential units. Each bathroom in residential units shall have at least one receptacle. Every bathroom receptacle in residential units shall be protected against ground faults by means of a ground fault circuit interrupter or other approved means.

Add 605.2.2 Kitchens in Residential units. Every kitchen countertop receptacle that is within 6 feet of a sink or exposed pipe shall be protected against ground faults by means of a ground fault circuit interrupter or other approved means.

Replace full text of **606.1 General.** with:

606.1 General. Elevators, dumbwaiters and escalators shall be maintained in compliance with and certified in accordance with State of Illinois statutes and regulations.

Enclosure 6 – Amendments to 2009 IMC

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

Enclosure 7 – Amendments to 2009 IFGC

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

608 Vented Wall Furnaces: Delete section, not allowed.

609 Floor Furnaces: Delete section, not allowed.

Appendix A: adopted by this reference.

Enclosure 8 – Amendments to IPC and Section 4.3 of Code of Ordinances

For the IPC:

101.1 Title. Replace *[NAME OF JURISDICTION]* with “City of Rock Island”

305.6.1 Sewer Depth. Replace *[NUMBER]* with “42” in both locations.

For Code of Ordinances section 4.3:

Replace entire section with:

Sec. 4-3. Plumbing Codes Adopted by Reference:

The most recent edition of the Illinois Plumbing Code shall apply to the installation, alteration, repair, relocation, addition, replacement, and maintenance of plumbing systems regulated by the Illinois Plumbing Code. The International Plumbing Code, 2009 Edition, and the International Fuel Gas Code, 2009 Edition, which are freely viewable on line at <http://publicecodes.citation.com/icod/index.htm>, shall apply to any and all plumbing and piping systems not regulated by the Illinois Plumbing Code. In addition, ANY structure in which a building drain is installed shall have at least one (1) vent stack carried through the roof and increased to a minimum size of Four Inches (4”) at a point one foot (1’) below the roof line.

Enclosure 9 – Amendments to the 2008 NEC

220.14 Other Loads – All Occupancies (Add)

(M) Maximum number of outlets per circuit.

Except as otherwise provided, the maximum number of outlets per circuit shall be:

- | | |
|--|----|
| (1) Lighting outlets in dwelling occupancies | 12 |
| (2) General use receptacles – all dwelling occupancies | 10 |
| (3) General use receptacles – all dwelling kitchen countertops | 2 |

Article 230 – Services. (Change)

230.91 Service-Entrance Conductors Inside Structures.

Location of Over current Protection. The service over current device shall be connected by no more than 10 feet of raceway from the meter device, in structures.

334.10 Uses Permitted. (Delete in its entirety and replace with the following)

Section 334.10 Uses Permitted. Type NM and Type NMC cable, minimum size # 12 copper or equivalent shall be permitted to be used in one-family and two family dwellings, and in multi-family dwellings. All service and sub-feeds shall be installed in raceway.

Exception: One-family and two-family dwellings not exceeding three stories in height may utilize # 12 NM or NMC cable or larger without raceways for sub-feeds.

334.12 Uses Not Permitted (Add)

Type NM and Type NMC cable shall not be used in any commercial or industrial applications.

404.4 Wet Locations (Add)

“In no case shall any outlet, switch or unapproved fixture be installed within the restricted tub or shower zone. The zone is all encompassing and includes the space directly over the tub or shower and extends Three (3) feet from the side and Eight (8) feet above the top of the tub rim shall be considered minimum distance from said tub or shower.

Enclosure 10 – Adoption of the 2009 IFC with amendments and discussion

PROPOSED ORDINANCE CHANGES
WITH ADOPTION OF 2009 INTERNATIONAL FIRE CODE

AN ORDINANCE AMENDING CHAPTER 6 OF THE CODE OF ORDINANCES OF THE
CITY OF ROCK ISLAND, ILLINOIS

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ROCK ISLAND, ILLINOIS:

That Sec. 6-16 of Article II of Chapter 6 of the Code of Ordinances is hereby amended by deleting “2003 edition” and inserting in lieu thereof “2009 edition”.

Sec. 6-16. Adopted; Including All Appendices ¹:

There is hereby adopted by the city for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion that certain code known as the international fire code, being particularly the ~~2003 edition~~, with its appendices, in its entirety, with its amendments which are made a part hereof by reference, which amendments are on file in the office of the city clerk, of which code not less than three (3) copies have been made and are now filed in the office of the city clerk; and the same is hereby adopted and incorporated as fully as if set out at length herein; and from the date on which this article shall take effect, the provision thereof shall be controlling within the limits of the city. (1963 Code, Ch. VIII, Art. II; Ord., ♦ 1, 2-7-1966; Ord., 10-8-1973; Ord., 2-12-1979; Ord. 83-36, ♦ 1, 9-12-1983; Ord. 89-45, ♦ 1, 8-28-1989; Ord. 92-01, ♦ 1, 1-6-1992; Ord. 99-20, ♦ 1, 3-22-1999; Ord. 82-2002, ♦ 2, 9-23-2002; Ord. 05-2004, ♦ 1, 1-19-2004; Ord. 78-2004, ♦ 1, 7-26-2004)

Sec. 6-16. Adopted; Including All Appendices ¹:

There is hereby adopted by the city for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion that certain code known as the international fire code, being particularly the 2009 edition, with its appendices, in its entirety, with its amendments which are made a part hereof by reference, which amendments are on file in the office of the city clerk, of which code not less than three (3) copies have been made and are now filed in the office of the city clerk; and the same is hereby adopted and incorporated as fully as if set out at length herein; and from the date on which this article shall take effect, the provision thereof shall be controlling within the limits of the city.

That Sec. 6-19 (a) of Article II of Chapter 6 of the Code of Ordinances is hereby amended by deleting “*international fire code, 2003 edition*” and by inserting in lieu thereof “*international fire code, 2009 edition*”.

Sec. 6-19. Enforcement:

(a) *Establishment And Duties Of Bureau Of Fire Prevention:* ~~The international fire code, 2003 edition,~~ shall be enforced by the bureau of fire prevention in the fire department of the city which is hereby established and which shall be operated under the supervision of the chief of the fire department.

(b) *Fire Marshal:* The fire marshal in charge of the bureau of fire prevention shall be appointed by the board of police and fire commissioners on the basis of examination to determine his qualifications.

(c) *Inspectors:* The chief of the fire department may detail such members of the fire department as inspectors as shall from time to time be necessary. (Ord. 83-36, ◆ 2, 9-12-1983; Ord. 85-52, ◆ 1, 12-23-1985; Ord. 89-45, ◆ 2, 8-28-1989; Ord. 82-2002, ◆ 3, 9-23-2002; Ord. 78-2004, ◆ 1, 7-26-2004)

Sec. 6-19. Enforcement:

(a) *Establishment And Duties Of Bureau Of Fire Prevention:* The international fire code, 2009 edition, shall be enforced by the bureau of fire prevention in the fire department of the city which is hereby established and which shall be operated under the supervision of the chief of the fire department.

(b) *Fire Marshal:* The fire marshal in charge of the bureau of fire prevention shall be appointed by the board of police and fire commissioners on the basis of examination to determine his qualifications.

(c) *Inspectors:* The chief of the fire department may detail such members of the fire department as inspectors as shall from time to time be necessary.

That Sec. 6-20 (a) of Article II of Chapter 6 of the Code of Ordinances is hereby amended by deleting “*section 3404.2.9.5 of the international fire code, 2003 edition*” and by inserting in lieu thereof “*section 3404.2.9.6 of the international fire code, 2009 edition*”.

Sec. 6-20. Establishment Of Limits In Which Storage Of Flammable Or Combustible Liquids In Outside Aboveground Tanks Prohibited:

(a) ~~The limits referred to in section 3404.2.9.5 of the international fire code, 2003 edition,~~ in which storage of flammable or combustible liquids in outside, aboveground tanks is prohibited are hereby established as follows: "everywhere within the corporate limits of the city of Rock Island".

(b) The limits in which new bulk plants for flammable or combustible liquids are prohibited are hereby established as follows: "must comply with the city of Rock Island zoning ordinance". (Ord. 83-36, ◆ 4, 9-12-1983; Ord. 89-45, ◆ 4, 8-28-1989; Ord. 92-01, ◆ 2, 1-6-1992; Ord. 82-2002, ◆ 4, 9-23-2002; Ord. 78-2004, ◆ 1, 7-26-2004)

Sec. 6-20. Establishment Of Limits In Which Storage Of Flammable Or Combustible Liquids In Outside Aboveground Tanks Prohibited:

(a) The limits referred to in section 3404.2.9.6 of the international fire code, 2009 edition, in which storage of flammable or combustible liquids in outside, aboveground tanks is prohibited are hereby established as follows: "everywhere within the corporate limits of the city of Rock Island".

(b) The limits in which new bulk plants for flammable or combustible liquids are prohibited are hereby established as follows: "must comply with the city of Rock Island zoning ordinance".

That Sec. 6-21 of Article II of Chapter 6 of the Code of Ordinances is hereby amended by deleting "*international fire code, 2003 edition*" and by inserting in lieu thereof "*international fire code, 2009 edition*".

Sec. 6-21. Establishment Of Limits In Which Bulk Storage Of Liquefied Petroleum Gases Restricted:

The limits referred to in section 3804 of the ~~international fire code, 2003 edition,~~ in which bulk storage of liquefied petroleum gas is restricted are hereby established as follows: "must comply with the city of Rock Island zoning ordinance". (Ord. 83-36, ◆ 5, 9-12-1983; Ord. 89-45, ◆ 5, 8-28-1989; Ord. 92-01, ◆ 2, 1-6-1992; Ord. 82-2002, ◆ 5, 9-23-2002; Ord. 78-2004, ◆ 1, 7-26-2004)

Sec. 6-21. Establishment Of Limits In Which Bulk Storage Of Liquefied Petroleum Gases Restricted:

The limits referred to in section 3804 of the international fire code, 2009 edition, in which bulk storage of liquefied petroleum gas is restricted are hereby established as follows:
"must comply with the city of Rock Island zoning ordinance".

That Sec. 6-22 of Article II of Chapter 6 of the Code of Ordinances is hereby amended by deleting “*international fire code, 2003 edition*” and by inserting in lieu thereof “*international fire code, 2009 edition*”.

Sec. 6-22. Establishment Of Limits In Which Storage Of Explosives And Blasting Agents Prohibited:

The provisions referred to in section 3304.1 of the ~~international fire code, 2003 edition~~, in which the storage of explosives and explosive materials, other than division 1.4G fireworks, small arms ammunition, small arms primers, propellant actuated cartridges and smokeless propellants in magazines, shall hereby be prohibited and are hereby established as follows: "not allowable within the corporate limits of the city of Rock Island". (Ord. 83-36, ◆ 6, 9-12-1983; Ord. 89-45, ◆ 6, 8-28-1989; Ord. 92-01, ◆ 2, 1-6-1992; Ord. 82-2002, ◆ 6, 9-23-2002; Ord. 78-2004, ◆ 1, 7-26-2004)

Sec. 6-22. Establishment Of Limits In Which Storage Of Explosives And Blasting Agents Prohibited:

The provisions referred to in section 3304.1 of the international fire code, 2009 edition, in which the storage of explosives and explosive materials, other than division 1.4G fireworks, small arms ammunition, small arms primers, propellant actuated cartridges and smokeless propellants in magazines, shall hereby be prohibited and are hereby established as follows: "not allowable within the corporate limits of the city of Rock Island".

Explanations for Proposed Changes

Sec. 6-16. Adopted Fire Code; Including All Appendices:

This section amends the code of ordinances to reflect the change from the *2003 edition* of the *International Fire Code* to the *2009 edition* of the *International Fire Code*. All, previously adopted, appendices of the 2003 I.F.C. will be replaced with all appendices of the 2009 International Fire Code.

Sec. 6-19. Enforcement:

This section amends the code of ordinances to reflect the change from the *2003 I.F.C.* to the *2009 I.F.C.* as the fire code enforced as duties of the Bureau of Fire Prevention.

Sec. 6-20. Establishment of Limits in Which Storage of Flammable or Combustible Liquids in Outside Aboveground Tanks Prohibited:

This section amends the code of ordinances to reflect the change from the *2003 I.F.C.* to the *2009 I.F.C.* and the referral to the appropriate section number.

Sec. 6-21. Establishment of Limits in Which Bulk Storage of Liquefied Petroleum Gases Restricted:

This section amends the code of ordinances to reflect the change from the *2003 I.F.C.* to the *2009 I.F.C.* and referral of the appropriate section number remains the same.

Sec. 6-22. Establishment of Limits in Which Storage of Explosives and Blasting Agents Prohibited:

This section amends the code of ordinances to reflect the change from the *2003 I.F.C.* to the *2009 I.F.C.* and its intent to amend the International Fire Code to prohibit the storage of explosives and blasting agents within the limits of the City.

Significant Changes in the International Fire Code 2003 to 2009

The 2009 edition of the International Fire Code continues to address the conditions that affect the health and safety of the public, as well as emergency responders. The 2009 edition of the fire code includes both new and improved prescriptive and performance-based model codes regulating both new and existing structures throughout our community. The 2009 edition of the I.F.C. is fully compatible with the family of codes used by our own building department, as well as other municipalities within the Quad City area.

The International Series of Codes focuses on regulations affecting or related to structures, processes, premises and safeguards regarding; the hazards of fire and explosion, conditions hazardous to life and property, as well as occupancy operations. This code also relates to matters of construction or repair of fire suppression and alarm systems and those matters which affect the safety of firefighters and emergency responders. It is the intent of the I.F.C. to prescribe regulations to reduce hazards throughout the community's entire building stock.

New & Updated Regulations adopted within the 2009 IFC:

Chapter 1: Administration

Section 102.5 New section: Addresses application of the residential code. This section states that where buildings are constructed in accordance with the *International Residential Code*, the provisions of the fire code shall apply as it relates to; premise identification, fire apparatus access and water supply, where interior and exterior systems and devices are installed, operated and maintained.

Chapter 3: General Requirements

Section 307 Open Burning, Recreational Fires and Portable Outdoor Fireplaces: This section specifically adds provisions for outdoor fireplaces not previously addressed in previous codes. It does not change the provisions previously enforced.

Chapter 4: Emergency Planning and Preparedness

Section 403.3 Crowd Manager: New section for group A occupancies or events where more than 1,000 people congregate. The provisions of this code require that a trained person designated as a crowd manager is established at a ratio of one crowd manager to every 250 persons in attendance of the event. The intent of this provision is not to require the hiring of dedicated staff to fulfill this requirement. Employees who are properly trained in understanding the fire safety plan can serve as crowd managers.

Chapter 5: Fire Service Features

Section 510 Emergency Responder Radio Coverage: These are new requirements which address the signal coverage of public safety radio systems in new and existing buildings. These new requirements are the direct result of communications problems identified and experienced at the World Trade Towers incident. This code change gives emergency responders the authority to identify communications problems and require appropriate solutions to be implemented.

Chapter 9: Fire Protection Systems

Section 903 Automatic Sprinkler Systems: The requirements for the installation of sprinkler systems have generally been increased. The increased requirements were placed on public assemblies, health care facilities, educational facilities, storage and repair garages and furniture stores.

Section 903.2.1.2 Group A-2: An automatic sprinkler system shall be provided where one of the following conditions exists: The fire area has an occupant load of 100 or more or the fire area is located on a floor other than a level of exit discharge serving such occupancies. This requirement applies to new bars, restaurants, night clubs and banquet halls. The occupant load requirement was reduced from 300 to 100. The code change also would affect multi-story assemblies.

Section 903.2.7 Group M: An automatic sprinkler system shall be provided throughout a building containing a group M occupancy used for the display and sale of upholstered furniture. This change requires that all new furniture stores are required to install a sprinkler system regardless of the square footage of the building. This requirement stems from the numerous large loss fires and firefighter injuries associated with these occupancies in past years.

Section 907 Fire Alarm and Detection Systems: This section of code changes revised and reformatted the arrangement of the fire alarm and detection system requirements. This code change addresses changes in new and existing buildings as it applies to safety function requirements, initiating devices, occupant notification systems, installation requirements, acceptance testing, inspection, testing and maintenance of these systems. This code change also improves the IFC by clearly stipulating when occupant notification is required.

Chapter 10: Means of Egress

Section 1008.1.10 Panic and Fire Exit Hardware: This code requires the need for panic hardware on doors serving a Group A occupancy with occupant load of 50 or more people. This is a change from the 2003 code which had an occupant threshold of 100 people.

Section 1021 Number of Exits and Continuity: This section was revised in the 2006 code cycle and enhanced the number of exits, as well as the allowable travel distances to required exit in different occupancies.

Section 1024 Luminous Egress Path Markings: Photoluminescent or self-luminous exit path markings are now required in exit enclosures of new and existing high-rise buildings. The code changes describe where, how and to what standard these markings must comply with. These new requirements are the direct result of exit passageway problems identified and experienced at the World Trade Towers incident. These new standards only apply to high-rise buildings which are defined as buildings that have floors more than 75 feet above the lowest level of fire department access. These new standards apply to existing buildings and will affect a number of residential facilities in Rock Island.

Chapter 15: Flammable Finishes

Section 1506 Powder Coating: This section has changed to clarify where powder coating can occur and what the requirements for the construction of powder coating rooms and booths are. Previous requirements were more restrictive for powder coating than for solvent formula paints. These new requirements now reflect standards that are based on new less environmentally hazardous operations.

Chapter 22: Motor Fuel-Dispensing Facilities and Repair Garages

Section 2204.4.1 Approved Containers Required: This section has been revised by limiting the volume of containers that class I, II, and IIIA liquids can be dispensed into at motor fuel-dispensing facilities. Containers are now limited to a maximum volume of 6 gallons unless the container is listed.

Chapter 24: Tents and Other Membrane Structures

Section 2401.1 Scope: A change was made in this section to remove canopies from the requirements of this code. The code was also revised and correlated in the IFC and IBC to reflect the unification needed in these two codes.

Chapter 46: Existing Buildings

Chapter 46 is a new chapter in the 2009 edition of the International Fire Code. This chapter compiles many of the previously existing code requirements for existing buildings and locates them within this chapter for easy reference. This chapter's main focus is placed on building fire protection and life safety requirements. Section 4603 addresses fire safety requirements for open shafts, provisions requiring automatic sprinkler systems, standpipes, fire alarm detection and notification systems. Section 4604 deals with the minimum means of egress required for existing buildings which was previously located in section 1027.

Area Fire Departments and Code Amendments

The Fire Marshals of the Quad Cities have been working together for over seven years to use a unified code within the regional Quad Cities area. The update to the 2009 edition of the International Fire Code has been in review for over six months by leading members of the Quad Cities Area Fire Marshal's Association.

In an effort to adopt the 2009 edition of the International Fire Code at approximately the same time, the Illinois Fire Marshal's have met and agreed on a limited number of amendments. All have agreed that we should keep local amendments to a minimum, but agree that some are needed. Rock Island, for instance, has an amendment to the fire code, which prohibits the storage of explosives within corporate city limits.

Adoption of the 2009 fire code allows for updated standards and practices to be implemented and used by the business and construction communities. With minimal changes to the adopted fire codes throughout the Quad City Area we are allowing our businesses as well as the contractor working in the area to play on an equal playing field.