FIRST AMENDMENT

BILL NO. 2005-19

ORDINANCE NO. 5766

AN ORDINANCE TO ADOPT THE INTERNATIONAL ENERGY CONSERVATION CODE, 2003 EDITION, ALONG WITH THE DOCUMENT ENTITLED "2003 SOUTHERN NEVADA INTERNATIONAL ENERGY CONSERVATION CODE AMENDMENTS," AS REPLACEMENTS FOR THE MODEL ENERGY CODE, 1992 EDITION, AND THE SUPPLEMENTAL DOCUMENT AMENDING THAT CODE, AND TO PROVIDE FOR OTHER RELATED MATTERS.

Proposed by: Paul Wilkins, Director of Building and Safety

Summary: Adopts the International Energy Conservation Code, 2003 Edition, along with the document entitled "2003 Southern Nevada International Energy Conservation Code Amendments," as replacements for the Model Energy Code, 1992 Edition, and the Supplemental Document amending that code.

THE CITY COUNCIL OF THE CITY OF LAS VEGAS DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1: Title 16, Chapter 52, Section 10, of the Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, is hereby amended to read as follows:

16.52.010: Those certain documents, three copies of which are on file in the Office of the City Clerk and are designated as follows, are adopted by reference as if set forth herein in full:

(A) The publication entitled ["The Model Energy Code, 1992 Edition," as published by the Council of American Building Officials,] "International Energy Conservation Code, 2003 Edition," as published by the International Code Council, as Part 1 of this Chapter; and

(B) The document entitled ["A Supplemental Document Amending the Model Energy Code, 1992 Edition,"] "2003 Southern Nevada International Energy Conservation Code Amendments," which adds to, deletes from and amends the [Model Energy Code, 1992 Edition,] "International Energy Conservation Code, 2003 Edition," as Part 2 of this Chapter.

SECTION 2: The document entitled "2003 Southern Nevada International Energy Conservation Code Amendments," referred to in Section 1 of this Ordinance, is attached hereto.

SECTION 3: The document entitled "A Supplemental Document Amending the Model Energy Code, 1992 Edition," is hereby repealed.

SECTION 4: Ordinance No. 5636 of the City of Las Vegas, which adopted the 2003 Edition of the International Building Code and the City of Las Vegas Amendments to the 2003 International Building Code, is hereby amended as set forth in Section 5 of this Ordinance.

SECTION 5: Subsection 1301.1.1 of the International Building Code is deleted in its entirety and replaced with a new Subsection 1301.1.1, reading as follows:

1301.1.1 Criteria. Buildings shall be designed and constructed in accordance with the International Energy Conservation Code, 2003 Edition, and the "2003 Southern Nevada International Energy Conservation Code Amendments," as adopted by Chapter 16.52 of the Las Vegas Municipal Code.

SECTION 6: Ordinance No. 5636 of the City of Las Vegas, which adopted the 2003 Edition of the International Residential Code and the City of Las Vegas Amendments to the 2003 International Residential Code, is hereby amended as set forth in Section 7 of this Ordinance.

SECTION 7: Section N1101 of the International Residential Code, including its constituent subsections, is deleted in its entirety and replaced with a new Section N1101, together with a new Subsection N1101.1 and a new Subsection N1101.1.1, reading as follows:

SECTION N1101 GENERAL

Subsection N1101.1 Scope. This section governs the design and construction of buildings for energy efficiency.

Subsection N1101.1.1 Criteria. Buildings shall be designed and constructed in accordance with the International Energy Conservation Code, 2003 Edition, and the "2003 Southern Nevada International Energy Conservation Code Amendments," as adopted by Chapter 16.52 of the Las Vegas Municipal Code.

SECTION 8: This ordinance shall become effective on August 1, 2005.

SECTION 9: If any section, subsection, subdivision, paragraph, sentence, clause or phrase in this ordinance or any part thereof is for any reason held to be unconstitutional or invalid or ineffective by any court of competent jurisdiction, such decision shall not affect the validity or effectiveness of the remaining portions of this ordinance or any part thereof. The City Council of the City of Las Vegas hereby declares that it would have passed each section, subsection, subdivision,

paragraph, sentence, clause or phrase thereof irrespective of the fact that any one or more sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared unconstitutional, invalid or ineffective.

SECTION 10: All ordinances or parts of ordinances or sections, subsections, phrases, sentences, clauses or paragraphs contained in the Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, in conflict herewith are hereby repealed.

PASSED, ADOPTED and APPROVED this 4th day of May, 2005.

APPROVED:

By _____
OSCAR B. GOODMAN, Mayor

ATTEST:

_____
BARBARA JO RONEMUS, City Clerk

APPROVED AS TO FORM:

_____ 5-4-05
Date

The above and foregoing ordinance was first proposed and read by title to the City Council on the 6th day of April, 2005, and referred to a committee for recommendation; thereafter the committee reported favorably on said ordinance on the 4th day of May, 2005, which was a regular meeting of said Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:

VOTING "AYE":	Mayor Goodman Councilmembers: Reese, Brown, Weekly, Mack, Wolfson and Tarkanian
VOTING "NAY":	None
EXCUSED:	None
ABSTAINED:	None

APPROVED:

OSCAR B. GOODMAN, Mayor

ATTEST:

BARBARA JO RONEMUS, City Clerk

2003

SOUTHERN NEVADA

INTERNATIONAL ENERGY CONSERVATION CODE

AMENDMENTS

February 1, 2005

JURISDICTIONS CONSIDERING ADOPTION:

Clark County
4701 W. Russell Rd.
Las Vegas, Nevada 89118
(702) 455-3030
Inspections 455-8040

Boulder City
401 California Ave.
Boulder City, NV. 89005
(702) 293-9282

North Las Vegas
2266 Civic Center Dr.
North Las Vegas, NV 89030
(702) 633-1577
Inspections 633-1576

City of Las Vegas
731 S. 4th Street
Las Vegas, Nevada 89155
(702) 229-6251
Inspections 229-2071

City of Mesquite
10 East Mesquite Blvd.
Mesquite, NV, 89027
(702) 346-2835

City of Henderson
240 Water Street
Henderson, NV 89015
(702) 267-3600
Inspections 267-3900

PREFACE

This document comprises the Southern Nevada Amendments to the 2003 International Energy Conservation Code as published by the International Code Council (ICC). It was developed by the jurisdictions listed on the cover page, the Association of General Contractors (AGC) and the Southern Nevada Home Builders Association (SNHBA) as a document to be adopted by reference. These provisions are not code unless adopted and codified by governmental jurisdictions. These amendments are not intended to prevent the use of any material or method of construction not specifically prescribed herein, provided any alternates have been approved and its use authorized by the building official. This document is available to be adopted as code by any jurisdiction without permission or approval from the jurisdictions listed on the cover page.

Section 101.1 Title (p.1)

Revise section 101.1 as follows:

101.1 Title These regulations shall be known as the *Energy Conservation Code* of Southern Nevada, and shall be cited as such. It is referred to herein as "this code."

Section 107.3 (p.4)

Add a new section that reads as follows:

107.3 Referenced Codes. Where this code refers to other codes not adopted by the jurisdiction, the applicable code adopted by the jurisdiction shall govern.

Section 202 Definitions (p.6 -9)

Revise the definition of "Conditioned Space" by adding a second sentence that reads as follows:

Conditioned Space: A heated or cooled space, or both, within a building and, where required, provided with humidification or dehumidification means so as to be capable of maintaining a space condition falling within the comfort envelope set forth in ASHRAE 55. Supplemental heating required for the protection of wet fire protection systems (freeze protection to 42 degrees) or the sole use of evaporative cooling does not fall within the scope of this definition.

Revise Section 202 by adding the following definitions:

Sign. An interior or exterior lighted device used to impart way-finding, identifications or promotional information to the viewer. Signs include, but are not limited to business identification, location maps, gaming boards, sports scoreboards, and slot carousels identifiers.

Task Lighting. Lighting devices, either plug and cord connected or hard wired, 6 feet or less above the work surface that provides lighting for a particular work surface or task.

Table 302.1 Exterior Design Conditions (p.11)

Table 302.1 is amended to read as follows:

Table 302.1
Exterior Design Conditions[d]

Condition	Value
Winter[a], Design Dry-bulb (°F)	27 °F
Summer[a], Design Dry-bulb (°F)	106 °F
Summer[a], Design Wet-bulb (°F)	66 °F
Degree Days Heating[b]	2238
Degree Days Cooling[b]	3213
Climate Zone[c]	5B

For SI: °C = [(°F)-32]/1.8.

a. The outdoor design temperature shall be selected from the columns of 97½ percent values for winter and 2½ percent values for summer from tables in the ASHRAE *Fundamental Handbook*. Adjustments shall be permitted to reflect local climates, which differ from the tabulated temperatures, or local weather experience determined by the code official.

b. The degree-days heating (base 65 °F) and cooling (base 65 °F) shall be selected from NOAA "Annual Degree Days to Selected Bases Derived from the 1971-2000 Normals," data available from adjacent military installations, or other source of local weather data acceptable to the code official.

c. The climate zone shall be selected from the applicable map provided in Figures 902.1(1) through 902.1(51) in Chapter 9 of this code.

d. For elevations greater than 6000 feet, see local jurisdiction for design conditions.

Section 402.2.2.1 Orientation for groups of buildings. (p.13)

Revise section 402.2.2.1 to read as follows:

402.2.2.1 Orientation for groups of buildings. The worst possible orientation of the proposed design, in terms of annual energy use, considering north, east, south, and west orientations, shall be used to represent groups of otherwise identical designs (including reversed or mirror plans).

Section 402.3.3 Site Energy (p.16)

Revise Section 402.3.3 to read as follows:

402.3.3 Site Energy. The different energy sources shall be compared on the basis of source energy use at the site where: 1kWh = 3 x 3,413 Btu's. (= 10,239 Btu's.)

Section 502.1.1 Moisture Control (p.17)

Revise section 502.1.1 by adding the following exception:

502.1.1 Moisture Control. The design shall not create a condition of accelerated deterioration from moisture condensation. Frame walls, floors and ceilings not ventilated to allow moisture to escape shall be provided with an approved vapor retarder having a permeance rated of 1 perm (5.7×10^{-11} kg/Pa s m^2) or less, when tested in accordance with the desiccant method using Procedure A of ASTM E 96. The vapor retarder shall be installed on the warm-in-winter side of the thermal insulations.

Exceptions:

1. In construction where moisture or its freezing will not damage the materials.
2. Where the county in which the building is being constructed is considered a hot and humid climate area and identified as such in Figures 902.1 (1) through 902.1(51) in Chapter 9 of this code.
3. Where other approved means to avoid condensation in unventilated framed wall, floor, roof and ceiling cavities are provided.
4. Frame walls, floors and ceilings in jurisdictions in Zone 5b (Crawl space floor vapor retarders are not exempted.)

Table 502.2 Heating and Cooling Criteria (p.18)

Table 502.2 is amended to read as follows:

Table 502.2
Heating and Cooling Criteria[a]

Element	Mode	Detached One- and Two-Family Dwellings	Group R-2, R-4 or Townhouses
		U_0	U_0
Walls	Heating or cooling	0.19	0.27
Roof/Ceiling	Heating or cooling	0.37	0.37
Floors over unheated spaces	Heating or cooling	0.07	0.07
Heated slab on grade[b,f]	Heating	R-value = 6	R-value = 6
Unheated slab on grade[c,d,f]	Heating	R-value = 0	R-value = 0
Basement wall[e,f]	Heating or cooling	U-factor = 0.15	U-factor = 0.15
Crawl space wall[e,f]	Heating or cooling	U-factor = 0.14	U-factor = 0.14

For SI: 1 Btu/hr-ft^2-°F = 5.678 W/(m^2-K), °C=[(°F)-32]/1.8

a. For projects where the building official has determined that the Climate Data is not consistent with that of the Las Vegas Valley, values shall be determined by using the graphs [Figures 502.2.(1), 502.2(2), 502.2(3), 502.2(4), 502.2(5) and 502.2(6)] using HDD determined by either the building official or a creditable climate source.

b. There are no insulation requirements for heated slabs in locations having less than 500 HDD.

c. There are no insulation requirements for unheated slabs in locations having less than 2,500 HDD.

d. Slab edge insulation is not required for unheated slabs in areas of very heavy termite infestation probability in accordance with Section 502.2.1.4 and as shown in Figure 502.2.(7).

e. Basement and crawl spaces wall U-factors shall be based on the wall components and surface air film. Adjacent soil shall not be considered in the determinations of the U-factor.

f. Typical foundation insulation techniques can be found in the DOE *Building Foundation Design Handbook.*

Table 502.2.5 Prescriptive Envelope Component Criteria Additions and Replacement Windows for Existing Detached One- and Two-Family Dwellings (p.39)

Table 502.2.5 is amended to read as follows:

Table 502.2.5
Prescriptive Envelope Component Criteria
Additions and Replacement Windows for Existing
Detached One- and Two-Family Dwellings

	Maximum	Minimum					
Heating Degree Days	Fenestration U-factor[e]	Ceiling R-value[a,e]	Wall R-value[e]	Floor R-value	Base-ment Wall R-value[b]	Slab perimeter R-value and depth[c]	Crawl space wall R-value[d]
0-1,999	0.75	R-26	R-13	R-11	R-5	R-0	R-5
2,000 – 3,999	0.50	R-30	R-13	R-19	R-8	R-0	R-10
4,000 - 5,999	0.40	R-38	R-18	R-21	R-10	R-9, 2 ft.	R-19
6,000 – 8,499	0.35	R-49	R-21	R-21	R-11	R-13, 4 ft.	R-20
8,500 – 12, 999	0.35	R-49	R-21	R-21	R-19	R-18, 4 ft.	R-20

For S.I. 1 foot = 304.8 mm

a. "Ceiling R-value" shall be required for flat or inclined (cathedral) ceilings. Floors over outside air shall meet "Ceiling R-value" requirements.
b. Basement wall insulation shall be installed in accordance with Section 502.2.2.1.6
c. Slab perimeter insulations shall be installed in accordance with Section 502.2.1.4. An additional R-2 shall be added to "Slab perimeter R-value" in the table if the slab is heated.
d. "Crawl space wall R-value" shall apply to unventilated crawl spaces only. Crawl space insulation shall be installed in accordance with Section 502.2.1.5.
e. Sunroom additions shall be required to have a maximum fenestration U-factor of 0.50 in locations with 2,000 – 12,999 HDD. In locations with 0 -5,999 HDD, the minimum ceiling R-value shall be R-19 and the minimum wall R-value shall be R-13. In locations with 6,000 - 12,999 HDD, the minimum ceiling R-value shall be R-24 and the minimum wall R-value shall be R-13.

Section 701.1 Scope (p.51)

Revise section 701.1 as follows:

701.1 Scope. Commercial buildings shall meet the requirements of ASHRAE/IESNA 90.1 including "Addendum g to the ASHRAE/IESNA Standard 90.1-2001".

Exception: Commercial buildings that comply with Chapter 8.

Table 802.2(1) Building Envelope Requirements Window and Glazed Door Area 10 Percent or Less of Above Grade Wall Area (p.54)

Revise Table 802.2(1) by adding the following information:

Table 802.2(1)
Building Envelope Requirements [a through e]
Window and Glazed Door Area 10 Percent or Less of Above Grade Wall Area

Element	**Condition/Value**		
Skylight (U-factor)	1		
Slab or below-grade wall (R-value)	R-0		
Windows and glass doors	**SHGC**	**U-factor**	
PF < 0.25	Any	Any	
0.25 ≤ PF < 0.50	Any	Any	
PF ≥ 0.50	Any	Any	
Roof Assemblies (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-19	R-14	
Metal joist/truss	R-19	R-15	
Concrete slab or deck	NA	R-14	
Metal Purlin with thermal block	R-25	R-15	
Metal Purlin without thermal block	X	R-15	
Floor over outdoor air or unconditioned space (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-11	R-5	
Metal joist/truss	R-11	R-6	
Concrete slab or deck	NA	R-5	
Above-grade walls (R-value)	**No Framing**	**Metal framing**	**Wood framing**
Framed R-value cavity	NA	R-11	R-11
R-value continuous	NA	R-0	R-0
CMU, ≥ 8 in, with integral insulation R-value cavity	NA	R-0	R-0
R-value continuous	R-0	R-0	R-0
Other masonry walls R-value cavity	NA	R-0	R-0
R-value continuous	R-0	R-0	R-0

For SI: 1 inch = 25.4 mm

a. For Climate Zones, other than 5B, refer to Tables 802.2(5) through 802.2(37).
b. "NA" indicates the condition is not applicable.
c. An R-value of zero indicates no insulation is required.
d. "Any" indicates any available product will comply.
e. "X" indicates no complying option exists for this condition.

Table 802.2(2) Building Envelope Requirements Window and Glazed Door Area Greater than 10 Percent But Not Greater Than 25 Percent or Less of Above Grade Wall Area (p. 55)

Revise Table 802.2(2) by adding the following information:

Table 802.2(2)
Building Envelope Requirements [a through e]
Window and Glazed Door Area Greater than 10 Percent But Not Greater Than 25 Percent or Less of Above Grade Wall Area

Element	**Condition/Value**		
Skylight (U-factor)	1		
Slab or below-grade wall (R-value)	R-0		
Windows and glass doors	**SHGC**	**U-factor**	
PF < 0.25	0.6	Any	
0.25 ≤ PF < 0.50	0.7	Any	
PF ≥ 0.50	Any	Any	
Roof Assemblies (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-25	R-19	
Metal joist/truss	R-25	R-20	
Concrete slab or deck	NA	R-19	
Metal Purlin with thermal block	R-30	R-20	
Metal Purlin without thermal block	X	R-20	
Floor over outdoor air or unconditioned space (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-11	R-5	
Metal joist/truss	R-11	R-6	
Concrete slab or deck	NA	R-5	
Above-grade walls (R-value)	**No Framing**	**Metal framing**	**Wood framing**
Framed R-value cavity	NA	R-11	R-11
R-value continuous	NA	R-0	R-0
CMU, ≥ 8 in, with integral insulation R-value cavity	NA	R-11	R-11
R-value continuous	R-5	R-0	R-0
Other masonry walls R-value cavity	NA	R-11	R-11
R-value continuous	R-5	R-0	R-0

For SI: 1 inch = 25.4 mm

a. For Climate Zones, other than 5B, refer to Tables 802.2(5) through 802.2(37).
b. "NA" indicates the condition is not applicable.
c. An R-value of zero indicates no insulation is required.
d. "Any" indicates any available product will comply.
e. "X" indicates no complying option exists for this condition.

Table 802.2(3) Building Envelope Requirements Window and Glazed Door Area Greater than 25 Percent But Not Greater Than 40 Percent or Less of Above Grade Wall Area (p.56)

Revise Table 802.2(3) by adding the following information:

Table 802.2(3)
Building Envelope Requirements [a through e]
Window and Glazed Door Area Greater than 25 Percent But Not Greater Than 40 Percent or Less of Above Grade Wall Area

Element	**Condition/Value**		
Skylight (U-factor)	1		
Slab or below-grade wall (R-value)	R-0		
Windows and glass doors	**SHGC**	**U-factor**	
PF < 0.25	0.4	0.7	
0.25 ≤ PF < 0.50	0.5	0.7	
PF ≥ 0.50	0.6	0.7	
Roof Assemblies (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-25	R-19	
Metal joist/truss	R-25	R-20	
Concrete slab or deck	NA	R-19	
Metal Purlin with thermal block	R-30	R-20	
Metal Purlin without thermal block	X	R-20	
Floor over outdoor air or unconditioned space (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-11	R-5	
Metal joist/truss	R-11	R-6	
Concrete slab or deck	NA	R-5	
Above-grade walls (R-value)	**No Framing**	**Metal framing**	**Wood framing**
Framed R-value cavity	NA	R-11	R-11
R-value continuous	NA	R-0	R-0
CMU, ≥ 8 in, with integral insulation R-value cavity	NA	R-11	R-11
R-value continuous	R-5	R-0	R-0
Other masonry walls R-value cavity	NA	R-11	R-11
R-value continuous	R-5	R-0	R-0

For SI: 1 inch = 25.4 mm

a. For Climate Zones, other than 5B, refer to Tables 802.2(5) through 802.2(37).
b. "NA" indicates the condition is not applicable.
c. An R-value of zero indicates no insulation is required.
d. "Any" indicates any available product will comply.
e. "X" indicates no complying option exists for this condition.

Table 802.2(4) Building Envelope Requirements Window and Glazed Door Area Greater than 40 Percent But Not Greater Than 50 Percent or Less of Above Grade Wall Area (p. 57)

Revise Table 802.2(4) by adding the following information:

Table 802.2(4)
Building Envelope Requirements [a through e]
Window and Glazed Door Area Greater than 40 Percent But Not Greater Than 50 Percent or Less of Above Grade Wall Area

Element	Condition/Value		
Skylight (U-factor)	1		
Slab or below-grade wall (R-value)	R-0		
Windows and glass doors	**SHGC**	**U-factor**	
PF < 0.25	0.4	0.7	
0.25 ≤ PF < 0.50	0.5	0.7	
PF ≥ 0.50	0.6	0.7	
Roof Assemblies (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-25	R-19	
Metal joist/truss	R-25	R-20	
Concrete slab or deck	NA	R-19	
Metal Purlin with thermal block	R-30	R-20	
Metal Purlin without thermal block	R-38	R-20	
Floor over outdoor air or unconditioned space (R-value)	**Insulation between framing**	**Continuous insulation**	
All-wood joist/truss	R-11	R-5	
Metal joist/truss	R-11	R-6	
Concrete slab or deck	NA	R-5	
Above-grade walls (R-value)	**No Framing**	**Metal framing**	**Wood framing**
Framed R-value cavity	NA	R-13	R-11
R-value continuous	NA	R-3	R-0
CMU, ≥ 8 in, with integral insulation R-value cavity	NA	R-11	R-11
R-value continuous	R-5	R-0	R-0
Other masonry walls R-value cavity	NA	R-11	R-11
R-value continuous	R-5	R-0	R-0

For SI: 1 inch = 25.4 mm

a. For Climate Zones, other than 5B, refer to Tables 802.2(5) through 802.2(37).
b. "NA" indicates the condition is not applicable.
c. An R-value of zero indicates no insulation is required.
d. "Any" indicates any available product will comply.
e. "X" indicates no complying option exists for this condition.

Section 802.3.2 Curtain wall, storefront glazing and commercial entrance doors. (p.58)

Revise section 802.3.2 by adding the following exception.

Section 802.3.2 Curtain wall, storefront glazing and commercial entrance doors. Curtain wall, storefront glazing and commercial-glazed swinging entrance doors and revolving doors shall be tested for leakage at 1.57 pounds per square foot (psf) (75 Pa) in accordance with ASTM E 283. For curtain walls and storefront glazing, the maximum air leakage rate shall be 0.3 cubic feet per minute per square foot (cfm/ft2) (5.5m3/h*m2) of fenestration area. For commercial glazed swinging entrance doors and revolving doors, the maximum air leakage rate shall be 1.00 cfm/ft2 (18.3m3/h*m2) of door area tested in accordance with ASTM E 283.

> **Exception:** Site constructed storefront glazing and commercial entrance doors that are weather-stripped or sealed in accordance with Section 802.3.3

Section 803.2.3.1 Temperature Controls (p. 59)

Revise section 803.2.3.1 to read as follows:

803.2.3.1 Temperature Controls. Each heating and cooling system shall have at least one solid state programmable thermostat or be connected to a Direct Digital Control system. The thermostat or Direct Digital Control system shall have the capability to set back or shut down the system based on the day of the week and time of day, and provide a readily accessible manual override that will return to the pre-setback or shutdown schedule without reprogramming.

Section 803.2.9 Piping insulation (p.64)

Revise section 803.2.9 by adding the following exception:

803.2.9 Piping insulation. All piping serving as part of a heating or cooling system shall be thermally insulated in accordance with Section 803.3.7.

> **Exception:** Condensation lines for simple HVAC systems and supply/ drain lines for Evaporative Coolers where temperatures can not drop below freezing.

Section 805.2.2.2 Automatic lighting shutoff. (p.74)

Revise section 805.2.2.2 by adding the following exception:

805.2.2.2. Automatic lighting shutoff. Buildings larger than 5,000 square feet (456 m2) shall be equipped with an automatic control device to shut off lighting in those areas. This automatic control device shall function on either:

1. A scheduled basis, using time-of-day, with an independent program schedule that controls the interior lighting areas that do not exceed 25,000 square feet (2323 m2) and are not more than one floor; or
2. An unscheduled basis by occupant intervention.

Exception: In buildings where the nature of the business activity is to be open 24 hours, as determined by the Building Official, automatic lighting shutoff is not required.

Section 805.5.1 Total connected interior lighting power. (p.75)

Revise Section 805.5.1 by adding the following exceptions:

Section 805.5.1 Total connected interior lighting power. The total connected interior lighting power (watts) shall be the sum of the watts of all interior lighting equipment as determined in accordance with Section 805.5.1.1 through 805.1.1.4.

Exceptions: The connected power associated with the following lighting equipment is not included in calculating total connected lighting power.

1. Specialized medical, dental and research lighting.
2. Professional sports arena playing field lighting.
3. Display lighting for exhibits in galleries, museums and monuments.
4. Guestroom lighting in hotels, motels, boarding houses or similar buildings.
5. Emergency lighting automatically off during normal building operation.
6. Theatrical or stage lighting where live performances are held.
7. Gaming areas.
8. Interior signs with a source efficacy of at least 45 lumens per watt, LED, neon, or cold cathode sources.
9. Task lighting.

Section 805.6 Exterior Lighting. (p.75)

Revise Section 805.6 by adding the second exception:

805.6 Exterior lighting. When the power for exterior lighting is supplied through the energy service to the building, all exterior lighting other than low-voltage landscape lighting, shall have a source efficacy of at least 45 lumens per watt.

Exceptions:

1. Where approved because of historical, safety, signage or emergency considerations.
2. Light Emitting Diode (LED) neon and cold cathode are acceptable exterior lamp sources.

Section 805.7 Electrical energy consumption (p.75)

Revise section 805.7 by adding the following exception:

805.7 Electrical energy consumption. In buildings having individual dwelling units, provision shall be made to determine the electrical energy consumed by each tenant by separately metering individual dwelling units.

Exception: Dwelling units with a transient occupancy such as timeshares.

RECEIVED
CITY CLERK

2005 MAY -2 A 10:39

AFFP DISTRICT COURT
Clark County, Nevada

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA)
COUNTY OF CLARK) SS:

Donna Stark, being 1st duly sworn, deposes and says:

That she is the Legal Clerk for the Las Vegas Review-Journal and the Las Vegas Sun, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy attached for,

LV CITY CLERK 2296311LV
3974349

was continuously published in said Las Vegas Review Journal and/or Las Vegas Sun in 1 edition(s) of said newspaper issued from 04/23/2005 to 04/23/2005, on the following days: APRIL 23, 2005

Signed: Donna Stark

SUBSCRIBED AND SWORN BEFORE ME THIS THE 27

day of April 2005

Mary B Sheffield

Notary Public

MARY B. SHEFFIELD
Notary Public State of Nevada
No. 99-53968-1
My appt. exp. Mar. 8, 2007

BILL NO. 2005-19

AN ORDINANCE TO ADOPT THE INTERNATIONAL ENERGY CONSERVATION CODE, 2003 EDITION, ALONG WITH THE DOCUMENT ENTITLED "2003 SOUTHERN NEVADA INTERNATIONAL ENERGY CONSERVATION CODE AMENDMENTS," AS REPLACEMENTS FOR THE MODEL ENERGY CODE, 1992 EDITION, AND THE SUPPLEMENTAL DOCUMENT AMENDING THAT CODE, AND TO PROVIDE FOR OTHER RELATED MATTERS.

Proposed by: Paul Wilkins, Director of Building and Safety

Summary: Adopts the International Energy Conservation Code, 2003 Edition, along with the document entitled "2003 Southern Nevada International Energy Conservation Code Amendments," as replacements for the Model Energy Code, 1992 Edition, and the Supplemental Document amending that code.

At the City Council meeting of APRIL 6, 2005 BILL NO. 2005-19 WAS READ BY TITLE AND REFERRED TO A RECOMMENDING COMMITTEE

COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 1ST FLOOR, 400 STEWART AVENUE, LAS VEGAS, NEVADA.

PUB: April 23, 2005
LV Review-Journal

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AFFP DISTRICT COURT
Clark County, Nevada

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA)
COUNTY OF CLARK) SS:

Donna Stark, being 1st duly sworn, deposes and says:

That she is the Legal Clerk for the Las Vegas Review-Journal and the Las Vegas Sun, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy attached for,

LV CITY CLERK 2296311LV
4002108

was continuously published in said Las Vegas Review Journal and/or Las Vegas Sun in 1 edition(s) of said newspaper issued from 05/07/2005 to 05/07/2005, on the following days: MAY 7, 2005

Signed: Donna Stark

SUBSCRIBED AND SWORN BEFORE ME THIS THE 10

day of May 2005

Mary B. Sheffield

Notary Public

MARY B. SHEFFIELD
Notary Public State of Nevada
No. 99-53968-1
My appt. exp. Mar. 8, 2007

FIRST AMENDMENT
BILL NO. 2005-19
Ordinance No. 5766

AN ORDINANCE TO ADOPT THE INTERNATIONAL ENERGY CONSERVATION CODE, 2003 EDITION, ALONG WITH THE DOCUMENT ENTITLED "2003 SOUTHERN NEVADA INTERNATIONAL ENERGY CONSERVATION CODE AMENDMENTS," AS REPLACEMENTS FOR THE MODEL ENERGY CODE, 1992 EDITION, AND THE SUPPLEMENTAL DOCUMENT AMENDING THAT CODE, AND TO PROVIDE FOR OTHER RELATED MATTERS.

Proposed by: Paul Wilkins, Director of Building and Safety
Summary: Adopts the International Energy Conservation Code, 2003 Edition, along with the document entitled "2003 Southern Nevada International Energy Conservation Code Amendments," as replacements for the Model Energy Code, 1992 Edition, and the Supplemental Document amending that code.

The above and foregoing ordinance was first proposed and read by title to the City Council on the 6th day of April 2005 and referred to a committee for recommendation; thereafter the committee reported favorably on said ordinance on the 4th day of May 2005, which was a regular meeting of said City Council; and that at said regular meeting the proposed ordinance was read by title to the City Council as amended and adopted by the following vote:

VOTING "AYE":
Mayor Goodman and Councilmembers Reese, Brown, Weekly, Mack, Wolfson, and Tarkanian
VOTING "NAY": NONE
EXCUSED: NONE

COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 1ST FLOOR, 400 STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: May 7, 2005
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