ORDINANCE O-2015-60

A BILL FOR AN ORDINANCE REPEALING AND REENACTING CHAPTER 16.22 OF THE LONGMONT MUNICIPAL CODE, ADOPTING BY REFERENCE THE 2015 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE

THE COUNCIL OF THE CITY OF LONGMONT, COLORADO, ORDAINS:

Section 7. International Energy Conservation Code Adopted.

Chapter 16.22 of the Longmont Municipal Code is hereby repealed and reenacted to read as follows:

16.22.010. - International Energy Conservation Code adopted.

Pursuant to Part 2 of Article 16 of Title 31, CRS, as amended, and Article IV, Municipal Charter of the City of Longmont, Colorado, there is adopted as the energy code of the City, by reference thereto, the International Energy Conservation Code, 2015 Edition, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478, that code to have the same force and effect as if set forth in this chapter in every particular, save and except such portions as are added, amended, deleted, or replaced in this chapter. All references in this code to the International Energy Conservation Code are to the edition referenced above.

16.22.020. - Copies—Filing for public inspection.

At the time of adoption, one certified true copy of the International Energy Conservation Code, published by the International Code Council, is on file in the office of the city clerk and may be inspected by any interested person between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, holidays excepted. The city shall keep a copy of the adopted code in the office of the chief enforcement officer for public inspection. The building code, as finally adopted, is available for sale at the office of the city clerk, at a price reflecting cost to the city as established by the city manager, pursuant to this municipal code.

16.22.030. - Section C101.1 amended—Title.

Section C101.1 of the International Energy Conservation Code is amended by the insertion of “the City of Longmont” in the brackets.

16.22.040. - Section C103.3.1 amended—Approval of construction documents.

Section C103.3.1 of the International Energy Conservation Code is amended by replacing the first sentence to read as follows:

When the building official issues a permit, the construction documents shall be approved in writing or by a stamp which states, “APPROVED AS NOTED.”

16.22.050. - Section C104.1 replaced—General.

Section C104.1 of the International Energy Conservation Code is deleted in its entirety and replaced with the following:

Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain accessible and exposed for inspection purposes until approved. Approval as a result of an inspection shall not be construed to be an

approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the owner or the owner's authorized agent to cause the work to remain accessible and exposed for inspection purposes. Neither the building official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.

16.22.060. - Section C104.2.6 amended—Final inspection.

Section C104.2.6 of the International Energy Conservation Code is amended by replacing the word "commissioning" in the second sentence with the word "inspections," and deleting sentence three.

16.22.070. - Section C202 amended—Definitions.

Section C202 of the International Energy Conservation Code is amended by the addition of the following:

CONDITIONED SPACE: An area, room or space that is enclosed within the building thermal envelope and that is directly heated or cooled or that is indirectly heated or cooled. Spaces that are indirectly heated or cooled must communicate through openings with conditioned spaces.

HISTORIC BUILDINGS: Buildings that are listed in or eligible for listing in the National Register of Historic Places, or designated as historic under an appropriate state or local law.

UNUSUALLY TIGHT CONSTRUCTION: Construction meeting the following requirements:

In buildings of unusually tight construction, combustion air shall be obtained from outside the sealed thermal envelope. In buildings of ordinary tightness, insofar as infiltration is concerned, all or a portion of the combustion air for fuel-burning appliances may be obtained from infiltration when the room or space has a volume of 50 cubic feet per 1,000 Btu/h input. Buildings classified as Group R occupancies, constructed with permits issued on or after March 1, 1989, are classified as buildings with unusually tight construction.

16.22.080. - Section C302.1 amended—Design conditions.

Section C302.1 of the International Energy Conservation Code is amended by the addition of the following:

The residential design parameters shall be -2 degrees Fahrenheit heating design and 91 degrees Fahrenheit cooling design.

Exception:

Boiler design parameters may be -10 degrees Fahrenheit heating design.

16.22.090. - Section C402.1.1 amended—Low energy buildings.

Section C402.1.1 of the International Energy Conservation Code is amended by the addition of the following exceptions:

3. Seasonal buildings.
4. Equipment rooms without conditioned habitable space.

16.22.100. - Section C402.1.3 amended—Table C402.1.3.

Table C402.1.3 of the International Energy Conservation Code is amended by the addition of footnote g. stating the following:

g. Re-roofing of existing buildings requiring insulation to be installed per Section C503.1 item 5, as amended, may be allowed to install an insulation value of R-20 above the roof deck.

16.22.110. - Section C403.2.1 amended—Calculation of heating and cooling loads.

Section C403.2.1 of the International Energy Conservation Code is amended by the addition of the following:

Residential dwelling unit heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies and any duct systems serving that equipment shall be installed in accordance with ACCA Manual D.

16.22.120. - Section C403.2.11 amended—Mechanical systems commissioning and completion requirements.

Section C403.2.11 of the International Energy Conservation Code is amended by the deletion of the first sentence and insertion of the following:

Mechanical systems shall be completed in accordance with Sections C408.2.2 through C408.2.3.3.

16.22.130. - Section C404.1 amended—General.

Section C404.1 of the International Energy Conservation Code is amended by the addition of Section 404.1.1 Service water heating.

The minimum Energy Factor for residential dwelling unit water heaters shall be .64 for fuel fired and .98 for electric water heaters.

16.22.140. - Section C404.9.3 amended—Covers.

Section C404.9.3 of the International Energy Conservation Code is amended by the deletion of sentence one and insertion of the following:

Outdoor heated pools and outdoor spas heated to 90 degrees Fahrenheit or higher shall be provided with a vapor-retardant cover.

16.22.150. - Section C404.11 amended—Service water-heating system commissioning and completion requirements.

Section C404.11 of the International Energy Conservation Code is amended by the deletion of the first sentence and insertion of the following:

Service water-heating systems shall be completed in accordance with Sections C408.2.2 through C408.2.3.3.

16.22.160. - Section C405.1 amended—Electrical power and lighting systems.

Section C405.1 of the International Energy Conservation Code is amended by the addition of the following after sentence one:

Functional testing shall be in accordance with Sections C408.3 through C408.3.1.3.

16.22.170. - Section C408 amended—System commissioning.

Section C408 of the International Energy Conservation Code is amended by the deletion of Sections C408.1, C408.2, C408.2.1, C408.2.4, C408.2.4.1, C408.2.4.2, C408.2.5, C408.2.5.1, C408.2.5.2, C408.2.5.4, and C408.3.2.

16.22.180. - Section C408.3 amended—Lighting system functional testing.

Section C408.3.1 of the International Energy Conservation Code is amended by the addition of the words “or electrical contractor” after “registered design professional” in sentence one.

16.22.190. - Section R101.1 amended—Title.

Section R101.1 of the International Energy Conservation Code is amended by the insertion of “the City of Longmont” in the brackets.

16.22.200. - Section R103.3.1 amended—Approval of construction documents.

Section R103.3.1 of the International Energy Conservation Code is amended by replacing the first sentence to read as follows:

When the building official issues a permit, the construction documents shall be approved in writing or by a stamp which states, “APPROVED AS NOTED.”

16.22.210. - Section R202 amended—Definitions.

Section R202 of the International Energy Conservation Code is amended by the addition of the following:

BEDROOM/SLEEPING ROOM: An enclosed space within a dwelling unit, used or intended to be used for sleeping purposes, meeting the minimum area requirements of the building code or containing a closet or similar area which is easily converted into a closet (such space needs only doors to become a closet).

CONDITIONED SPACE: An area, room, or space that is enclosed within the building thermal envelope and that is directly heated or cooled or that is indirectly heated or cooled. Spaces that are indirectly heated or cooled must communicate thru openings with conditioned spaces.

CONDITIONED SPACE: For energy purposes, space within a building that is provided with heating and/or cooling equipment or systems capable of maintaining, through design or heat loss/gain, 50 degrees Fahrenheit during the heating season and 85 degrees Fahrenheit during the cooling season, or communicates directly with a conditioned space. For mechanical purposes, an area, room or space being heated or cooled by any equipment or approved heating appliance.

HISTORIC BUILDINGS: Buildings that are listed in or eligible for listing in the National Register of Historic Places, or designated as historic under an appropriate state or local law.

UNUSUALLY TIGHT CONSTRUCTION: Construction meeting the following requirements:

In buildings of unusually tight construction, combustion air shall be obtained from outside the sealed thermal envelope. In buildings of ordinary tightness, insofar as infiltration is concerned, all or a portion of the combustion air for fuel-burning appliances may be obtained from infiltration when the room or space has a volume of 50 cubic feet per 1,000 Btu/h input. Buildings classified as Group R occupancies, constructed with permits issued on or after March 1, 1989, are classified as buildings with unusually tight construction.

16.22.220. - Section R302.1 amended—Design conditions.

Section R302.1 of the International Energy Conservation Code is amended by the addition of the following:

The residential design parameters shall be -2 degrees Fahrenheit heating design and 91 degrees Fahrenheit cooling design.

Exception:
Boiler design parameters may be -10 degrees Fahrenheit heating design.

16.22.230. - Section R401.1 amended—Scope.

Section R401.1 of the International Energy Conservation Code is amended by the addition of the following:

401.1.1 Service water heating. The minimum Energy Factor for residential dwelling unit water heaters shall be .64 for fuel fired and .98 for electric water heaters.

16.22.240. - Table R402.1.2 amended—Insulation and fenestration requirement by component.

Table R402.1.2 is amended by adding an exception to footnote c. which states, insulate existing basement or crawl space walls to the level required when the residence was constructed or R-10 insulation minimum whichever is greater."

16.22.250. - Section R402.4.1 amended—Building thermal envelope.

Section R402.4.1 of the International Energy Conservation Code is amended by replacing the first two sentences with the following:

The building thermal envelope shall comply with Section R402.4.1.1. The building thermal envelope shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material:

1. All joints, seams and penetrations
2. Site-built windows, doors and skylights
3. Openings between window and door assemblies and their respective jambs and framing
4. Utility penetrations
5. Dropped ceilings or chases adjacent to the thermal envelope
6. Knee walls
7. Walls and ceilings separating a garage from conditioned space
8. Behind tubs and showers on exterior walls
9. Common walls between dwelling units
10. Attic access openings
11. Rim joist junction
12. All other sources of infiltration

16.22.260. - Section R402.4.1.2 amended—Testing.

Section R402.4.1.2 of the International Energy Conservation Code is amended by changing the 3 air changes per hour in zones 3 through 8 in sentence one to 5.

16.22.270. - Section R403.6 amended—Mechanical ventilation.

Section R403.6 of the International Energy Conservation Code is amended by the addition of the following exception:

Exception:
Combustion air intake for natural draft vented water heaters.

16.22.280. - Section R403.10.4 amended—Covers.

Section R403.10.4 of the International Energy Conservation Code is amended by the deletion of sentence one and insertion of the following:

Outdoor heated pools and outdoor spas heated to 90 degrees Fahrenheit or higher shall be provided with a vapor-retardant cover.