CITY OF SANTA FE, NEW MEXICO

ORDINANCE NO. 2021-6

AN ORDINANCE

AMENDING SECTION 7-1.1 SFCC 1987 TO ADOPT THE NEWEST VERSION OF THE INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED AND AMENDED BY THE STATE OF NEW MEXICO CONSTRUCTION INDUSTRIES DIVISION; AND AMENDING SECTION 7-4.2 SFCC 1987, CITY OF SANTA FE GREEN BUILDING CODE, TO UPDATE CODE REFERENCES IN CONJUNCTION WITH THE ADOPTION OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED AND AMENDED BY THE STATE OF NEW MEXICO CONSTRUCTION INDUSTRIES DIVISION.

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF SANTA FE:

Section 1. Section 7-1.1 of SFCC 1987 (being Ord. No. 2008-1, § 3, as amended) is amended to read:

7-1.1 Adoption of codes.

A. For the purpose of regulating the erection, construction, enlargement, alteration, repair, moving, removal, conversion, demolition, occupancy, equipment, use, height, area,

unobstructed maintenance of required yards, and maintenance of buildings or structures within the planning and platting jurisdiction of the city, the following provisions and codes are adopted by reference and incorporated as fully as if set out herein unless otherwise amended by the city:

(1) Section 14.5.1 New Mexico Administrative Code (NMAC) General Provisions;

(2) Section 14.5.2 New Mexico Administrative Code (NMAC) Permits;

(3) Section 14.5.3 New Mexico Administrative Code (NMAC) Inspections;

(4) 2015 New Mexico Commercial Building Code adopted by the state of New Mexico construction industries division (NMAC 14.7.2), as may be amended from time to time, which adopts and amends the International Building Code (IBC);

(5) 2015 New Mexico Residential Building Code adopted by the state of New Mexico construction industries division (NMAC 14.7.3), as may be amended from time to time, which adopts and amends the International Residential Code (IRC);

(6) 2015 New Mexico Earthen Building Materials Code adopted by the state of New Mexico construction industries division (NMAC 14.7.4), as may be amended from time to time;

(7) 2018 New Mexico Energy Conservation Code adopted by the state of New Mexico construction industries division (NMAC 14.7.6, residential code; and NMAC 14.7.9, commercial code), as may be amended from time to time, which adopts and amends the International Energy Conservation Code (IECC);

(8) 2015 New Mexico Existing Building Code adopted by the state of New Mexico construction industries division (NMAC 14.7.7), as may be amended from time to time, which adopts and amends the International Existing Building Code (IEBC);

(9) 2015 New Mexico Historic Earthen Buildings code adopted by the state of New Mexico construction industries division (NMAC 14.7.8), as may be amended

from time to time;

(10) 2015 New Mexico Plumbing Code adopted by the state of New Mexico construction industries division (NMAC 14.8.2), as may be amended from time to time, which adopts and amends the Uniform Plumbing Code (UPC), and as further amended in Sections 7-1.8 and 7-1.9 SFCC 1987;

(11) 2012 New Mexico Swimming Pool, Spa, and Hot Tub Code adopted by the state of New Mexico construction industries division (NMAC 14.8.3), as may be amended from time to time, which adopts and amends the Uniform Swimming Pool, Spa, and Hot Tub Code (USPSHTC);

(12) 2015 New Mexico Mechanical Code adopted by the state of New Mexico construction industries division (NMAC 14.9.2), as may be amended from time to time, which adopts and amends the Uniform Mechanical Code (UMC);

(13) 2012 New Mexico Solar Energy Code adopted by the state of New Mexico construction industries division (NMAC 14.9.6), as may be amended from time to time, which adopts and amends the Uniform Solar Energy Code (USEC);

(14) 2017 New Mexico Electrical Code adopted by the state of New Mexico construction industries division (NMAC 14.10.4), as may be amended from time to time, which adopts and amends the National Electrical Code (NEC); and

(15) 2012 New Mexico Electrical Safety Code adopted by the state of New Mexico construction industries division (NMAC 14.10.5), as may be amended from time to time, which adopts and amends the National Electrical Safety Code (NESC).

B. Any person violating or failing, neglecting, or refusing to comply with the provisions of the codes set forth in paragraph A. above or the other requirements of this chapter shall be subject to the enforcement provisions set forth in Sections 1-3 and 14-11 SFCC 1987.

C. A copy of the codes set forth in paragraph A. and this chapter shall be kept on

file in the office of building inspections and shall be available for public inspection at all reasonable times.

Section 2. Section 7-4.2 of SFCC 1987 (being Ord. No. 2009-9, § 3, as amended) is amended to read:

7-4.2 Residential Green Building Code.

A. *Purpose.* The purpose of this section is to:

(1) Provide criteria for rating the environmental performance of single-family residential construction and site design practices and provide guidelines for documentation that demonstrates conformance with those criteria;

(2) Encourage cost-effective and sustainable building methods by encouraging conservation of fossil fuels, water and other natural resources, reduction of greenhouse gas emissions, recycling of construction materials, reducing solid waste and improving indoor air quality;

(3) Identify the specific requirements for complying with the requirements of the Residential Green Building Code; and

(4) Encourage more aggressive green building development through incentives and rewards to work toward the goals of the 2030 challenge as adopted by the governing body by Resolution No. 2006-55.

B. *Residential Green Building Code; Applicability.*

(1) The provisions of the Santa Fe Residential Green Building Code shall apply to:

(a) New single-family, attached and detached, residential units as defined by the 2015 International Residential Code or its successor as adopted by the city;

(b) Modular homes which are built off-site and brought onto the site,

provided that the land use director may approve exceptions to specific code requirements upon a showing by the applicant or modular home supplier that compliance would cause undue burden; and

(c) Residential additions that provide for living, sleeping, eating, cooking and sanitation. Only the addition is subject to the code provisions, not the existing structure.

(2) Upon request of an applicant, applications for permits submitted prior to March 1, 2017, may be issued in compliance with the prior version of Residential Green Building Code. The permit fee in paragraph F of this subsection shall apply.

C. *Relationship to Other Codes; Compliance; Exceptions.*

(1) The requirements of this section are in addition to and do not replace the requirements of other sections of this chapter and other chapters of this Code, including without limitation, all of the life safety codes, historic preservation ordinance, land development code and adopted building codes and development standards.

(2) All submittals and approvals required under this Residential Green Building Code shall be rendered in conjunction with a residential building permit application and related field inspections. The application shall be on a form approved by the land use director. The applicant shall demonstrate compliance with all of the provisions of this section prior to the issuance of a certificate of occupancy by the land use director.

(3) For a structure located in an historic overlay district where it can be demonstrated that strict compliance with the requirements of this section cannot be achieved without an exception to the historic overlay district requirements, the requirements of this section may be adjusted so as to resolve the conflict between the two (2) sections of the Code.

D. *Administration.*

(1) The land use director shall:

(a) Administer and enforce the Residential Green Building Code; and

(b) Require an applicant for a building permit, to prepare and submit Residential Green Building Code documentation to the green code administrator or designee to assure compliance with this section.

E. *Requirements.*

(1) *Energy performance levels.* A documented analysis of the building's energy performance using software in accordance with 2018 International Code Council International Energy Conservation Code ("IECC") Section 405 is required. A projected Home Energy Rating System ("HERS") index, or equivalent, shall be submitted as part of a building permit application and a report of the confirmed HERS index, or equivalent, meeting the standards of this section is required prior to issuance of a certificate of occupancy. The required HERS index for residences up to and including three thousand (3,000) square feet of conditioned space shall be 65 until January 1, 2018, when it shall be reduced to 60. The required HERS index for residences over three thousand (3,000) feet of conditioned space shall be reduced by one point for each one hundred (100) square feet of conditioned space over three thousand (3,000), or pro-rata portion thereof, until the required HERS index is zero and shall be zero for those and larger residences.

(2) *HERS raters.* HERS raters shall be certified to conduct HERS analysis by passing educational courses and obtaining continuing education credits as required by the land use director. In addition HERS raters shall:

(a) Confirm ventilation rates of the ventilation equipment used to satisfy the required house ventilation and report the findings to the planning and

land use department;

(b) Supply a report that includes the building components contributing to achievement of the required HERS index to be compared to the building plans submitted for a building permit. Reports approved to supply this information shall be approved by the land use director; and

(c) Supply an estimation of the greenhouse gas emissions avoided and the electricity and natural gas usage avoided when submitting the final or confirmed HERS index. Reports approved to supply this information shall be approved by the land use director.

(3) *Building envelope insulation values.* Building insulation levels shall meet the requirements of overall UA for 2018 IECC. A report of compliance shall be provided to the city as part of a building permit application. Reports approved to supply this information shall be approved by the land use director.

(4) *Building thermal envelope insulation confirmation.* The insulation installers shall provide a certification complying with a template to be provided by the planning and land use department listing the type, manufacturer and R-value of insulation installed in each element of the building thermal envelope. For blown or sprayed insulations (fiberglass and cellulose), the initial installed thickness, settled thickness, settled R-value, installed density, coverage area and number of bags installed shall be listed on the certification. For insulated siding, the R-value shall be listed on the product's package and shall be listed on the certification. The insulation installer shall sign, date and provide the certification in a conspicuous location on the job site. (Consistent with 2015 IRC Section N1101.10.1.)

(5) *Air sealing and insulation.* The air barrier and insulation installation criteria from Table 402.4.1.1 from the 2018 IECC shall be visually inspected pursuant to

Section 402.4.1.1 whether or not the testing option from Section 402.4.1.2 has been achieved. Insulation values shall be verified to match those used to obtain the required HERS rating.

(6) *Duct installation.* The installation instructions for heating, ventilation and air conditioning equipment shall be made available to the inspector conducting the duct installation inspection to ensure ducting meets the manufacture's specifications. It shall be located on the equipment or in a conspicuous location adjacent to the equipment to be easily located by the inspector.

(7) *Duct leakage.* Duct tightness shall be verified in accordance with 2018 IECC section 403.3.4 and shall not exceed six (6) percent of total fan flow.

(8) *Duct protection during construction.* All boots, ducts and ventilation openings shall be sealed during construction to prevent dust and debris from entering them and shall remain sealed until they are put into operation.

(9) *Water conservation levels.* Water conservation features are implemented to achieve conservation performance shall be required. A documented analysis using the water efficiency rating score ("WERS") tool showing a maximum score of 70 shall be submitted to the planning and land use department as part of a building permit application and a report of the confirmed rating with a maximum score of 70 shall be submitted to the planning and land use department prior to receiving a certificate of occupancy.

(10) *Whole-house mechanical ventilation requirement.* Mechanical ventilation shall be required at a rate based on the following formula: required cubic feet per minute of ventilation = (total heated floor area × .01) + ((number of bedrooms + 1) × 7.5).

(11) *Heating and cooling equipment sizing and system design.*

(a) Heating and cooling equipment and appliances shall be sized in

accordance with Air Conditioning Contractors of America ("ACCA") Manual S or other approved sizing methodologies based on building loads calculated in accordance with ACCA Manual J (version 8 or higher) or other approved heating and cooling methodologies.

(b) Duct systems serving heating, cooling, and ventilation equipment shall be designed and installed in accordance with ACCA Manual D, the manufacturer's installation instructions or other approved methodologies.

(c) Radiant hydronic systems shall be designed using manufacturer's recommendations, mechanical engineer design specifications or other approved hydronic heating design methods, and shall include equipment specifications, the number of zones, pipe diameter, length, and flow rate for each zone.

(d) ACCA Manual J and S, and Manual D and radiant design reports, as applicable, along with an AHRI (Air-Conditioning, Heating and Refrigeration Institute) certificate or equivalent mechanical equipment certification shall be submitted to the planning and land use department either at time of building permit application or no later than the completion of rough framing. Duct design reports shall be submitted before ducts are installed. Radiant hydronic system in concrete shall be submitted before installation.

(e) All HVAC documents submitted are subject to review and approval by the land use director before installation. Other approved HVAC design methodologies shall be approved by the land use director.

(12) Installation of a radon mitigation system consistent with Appendix F of the 2015 International Residential Building Code.

(13) *Disclosure of building performance and homeowner's manual.* The following items shall be documented and included in a homeowner's manual provided to

the first homeowner and available for review for homes that are for sale on forms provided by the land use director:

(a) The confirmed HERS index;

(b) The blower door result at ACH 50;

(c) The required amount of ventilation and the archived ventilation rate in air changes per hour;

(d) The type of ventilation system used;

(e) The percentage better that the UA is above the 2018 IECC maximum requirement;

(f) The confirmed WERS;

(g) A diagram showing the location of shut off valves for water, electricity and any combustions fuels (natural gas or propane) with labels in English and Spanish;

(h) The manuals for all major equipment and fixtures in English and in Spanish if available; and

(i) All other homeowner manual items available from the planning and land use department at the time of certificate of occupancy for that purpose.

F. *Permit Fee.*

Applicants for residential building permits shall pay a green building code permit fee of one hundred dollars ($100.00) for each residential unit, subject to the provisions for fee waivers under subsection 14-8.11(G)(2)(a).

G. *Effective Date.*

Section 7-4.1 SFCC 1987 shall be effective July 1, 2009.

PASSED, APPROVED, and ADOPTED this 10th day of March, 2021.

ALAN WEBBER, MAYOR

ATTEST:

KRISTIN MIHELCIC, CITY CLERK

APPROVED AS TO FORM:

ERIN K. McSHERRY, CITY ATTORNEY

Bill No. 2021-5

Legislation/2021/Bills/2021-6 Energy Conservation Code and Green Building Code Updates

TITLE 14 HOUSING AND CONSTRUCTION
CHAPTER 7 BUILDING CODES GENERAL
PART 6 2018 NEW MEXICO RESIDENTIAL ENERGY CONSERVATION CODE

14.7.6.1 ISSUING AGENCY: Construction Industries Division (CID) of the Regulation and Licensing Department.
[14.7.6.1 NMAC - Rp, 14.7.6.1 NMAC, 9/25/2020]

14.7.6.2 SCOPE: This rule applies to all residential contracting work performed in New Mexico on or after September 25, 2020, that is subject to the jurisdiction of CID, unless performed pursuant to a permit for which an application was received by CID before that date.
[14.7.6.2 NMAC - Rp, 14.7.6.2 NMAC, 9/25/2020]

14.7.6.3 STATUTORY AUTHORITY: Sections 60-13-9 and 60-13-44 NMSA 1978.
[14.7.6.3 NMAC - Rp, 14.7.6.3 NMAC, 9/25/2020]

14.7.6.4 DURATION: Permanent.
[14.7.6.4 NMAC - Rp, 14.7.6.4 NMAC, 9/25/2020]

14.7.6.5 EFFECTIVE DATE: September 25, 2020 unless a later date is cited at the end of a section.
[14.7.6.5 NMAC - Rp, 14.7.6.5 NMAC, 9/25/2020]
[From the date of publication of this rule in the New Mexico register, until month 3/2021, permits may be issued under either the previously-adopted rule, or this rule. After month 3/2021, permits may be issued only under this rule.]

14.7.6.6 OBJECTIVE: The purpose of this rule is to establish minimum standards for energy conservation for residential construction in New Mexico.
[14.7.6.6 NMAC - Rp, 14.7.6.6 NMAC, 9/25/2020]

14.7.6.7 DEFINITIONS: See 14.5.1 NMAC, General Provisions and Chapter 2 of the IECC as amended in 14.7.6.10 NMAC.
[14.7.6.7 NMAC - Rp, 14.7.6.7 NMAC, 9/25/2020]

14.7.6.8 ADOPTION OF THE 2018 NEW MEXICO RESIDENTIAL ENERGY CONSERVATION CODE:

A. This rule adopts by reference the 2018 international energy conservation code (IECC), as amended by this rule.

B. In this rule, each provision is numbered to correspond with the numbering of the 2018 international residential energy conservation code.

C. This rule is to be applied to each of the following New Mexico building codes, including the NMRBC, NMPC, NMMC and the NMEC.
[14.7.6.8 NMAC - Rp, 14.7.6.8 NMAC, 9/25/2020;

14.7.6.9 CHAPTER 1 - ADMINISTRATION:

A. Section R101 - General.

(1) R101.1 Title. Delete this section of the IECC and substitute: this rule shall be known as 14.7.6 NMAC, the 2018 New Mexico Residential Energy Conservation Code (NMRECC).

(2) R101.2 Scope. Delete this section of the IECC and see 14.7.6.2 NMAC, Scope.

(3) R101.3 Intent. Delete this section of the IECC and see 14.7.6.6 NMAC, Objective.

(4) R101.5.1 Compliance materials. Delete this section of the IECC and substitute the following: the code official shall be permitted to approve specific computer software, worksheets, compliance manuals and other similar materials that meet the intent of this code, including but not limited to ComCheck, ResCheck, and worksheet or trade-off sheets from the New Mexico energy conservation code residential applications manual, issued by the New Mexico department of energy.

B. Section R102 Alternate Materials-Method of Construction, Design for Insulating Systems. See this section of the IECC.

C. Section R103 Construction Documents. Delete this section of the IECC and see 14.5.2 NMAC, Permits except retain Section R103.2 as amended.

D. Section R103.2 Information on construction documents. Delete section and substitute the following: Ducts shall be installed in accordance with Chapter 6 and Chapter 17 of the New Mexico Mechanical Code and current applicable standards.

E. Section R104 Fees. Delete this section of the IECC and see 14.5.5 NMAC, Fees.

F. Section R105 Inspections. Delete this section of the IECC and see. 14.5.3 NMAC, General Provisions.

G. Section R106 Validity. Delete this section of the IECC and see. 14.5.2.12 NMAC Permits.

H. Section R107 Referenced Standards. All references to the international residential code shall be deemed references to 14.7.3 NMAC, the New Mexico Residential Building Code (NMRBC). All references to the international plumbing code shall be deemed references to 14.8.2 NMAC, the New Mexico Plumbing Code (NMPC). All references to the international mechanical code shall be deemed references to 14.9.2 NMAC, the New Mexico Mechanical Code (NMMC). All references to the ICC or International Electrical Code shall be deemed references to 14.10.4 NMAC, the New Mexico Electrical Code (NMEC). All references to the international energy conservation code shall be deemed references to 14.7.6 NMAC, the New Mexico Residential Energy Conservation Code (NMRECC). All references to the international fuel gas code in the 2018 IECC are deemed references to the NMMC or the LP gas standards found at 19.15.40 NMAC, and Sections 70-5-1 through 70-5-23 NMSA 1978.

I. Section R108 Stop Work Order. Delete this section of the IECC and see 14.5.3 NMAC, Inspections.

J. Section R109 Board of Appeals. Delete this section of the IECC and See 14.5.1 NMAC, General Provisions.

[14.7.6.9 NMAC - Rp, 14.7.6.9 NMAC, 9/25/2020;

14.7.6.10 CHAPTER 2 - DEFINITIONS: See this chapter of the IECC residential provisions, adding the following definitions.

A. Section R201.1 Scope. See this section of the IECC and add the following: If the same term is defined in the New Mexico construction codes and in the IECC, the term shall have the meaning given it in the New Mexico construction codes.

B. Section R201.3 Terms defined in other codes. Delete this section of the IECC and substitute with the following: Terms defined in the New Mexico Residential Construction Code.

C. Section R201.4 Terms not defined in other codes. See this chapter of the IECC.

D. Section R202 General Definitions. See this section of the IECC except as provided below.

(1) Unconditioned space. Add the following definition: Space within a building that is not mechanically heated or cooled and is outside the building thermal envelope.

(2) Vapor retarder class. Add the following definition: a measure of a material or assembly's ability to limit the amount of moisture that passes through that material or assembly. Vapor retarder class shall be defined using the desiccant method of ASTME96 as follows:

(a) class I: 0.1 perm or less;

(b) class II: > 0.1 perm □1.0 perm;

(c) class III: > 1.0 perm <10 perm.

(3) NMRECC means 2018 New Mexico Residential Energy Conservation Code.

(4) NMRBC means 14.7.3 NMAC, 2015 New Mexico Residential Building Code, which adopts by reference and amends the 2015 International Residential code.

(5) NMPC means 2015 New Mexico Plumbing Code, which adopts by reference and amends the 2015 Uniform Plumbing Code.

(6) NMMC means 14.9.2 NMAC, NMMC 2015 New Mexico Mechanical Code, which adopts by reference and amends the 2015 Uniform Mechanical Code.

(7) NMEC means 14.10.4 NMAC, NMEC 2017 New Mexico Electrical Code, which adopts by reference and amends the 2017 National Electrical Code.

(8) RESNET Software. Is an approved software program to meet the performance requirements of the IECC.

(9) COMCHECK. Is the residential energy compliance tool designed by the U.S. department of energy (DOE) to clarify residential energy code compliance providing a user information whether building meets the requirements of the International Energy Conservation Code (IECC) and ASHRAE 90.1, as well as state-specific codes.

(10) RESCHECK. A document describing the overall efficiency of the insulation of a building which works by performing a simple U-factor x Area (UA) calculation for each building assembly to determine the overall UA of a building. The UA of the proposed project building is compared to the code requirements.

(11) ASTM. Means the American society for testing and materials, an international standards organization that develops and publishes voluntary consensus building technical standards for a wide range of materials utilized in construction.

(12) HERS. Means the home energy rating system index and is the industry standard by which a home's energy efficiency is measured. It is also the nationally recognized system for inspecting and calculating a home's energy performance.

[14.7.6.10 NMAC - Rp, 14.7.6.10 NMAC, 9/25/2020]

14.7.6.11 CHAPTER R301 - CLIMATE ZONES: See this Chapter of the IECC except delete the text of section 301.1 General and replace with the following: the table below in conjunction with Table 301.3(2) shall be used to determine the applicable requirements for Chapters 4. Locations not listed in the table below shall use either Table 301.1, Section 301.3, or the building official may designate a climate zone consistent with the elevation, HDD & CDD from the table below.

Table 301.2
New Mexico Climate Zones Based on Heating and Cooling Degree Days

City	County	Elev. (feet)	Heating Degree Days (HDD) 65°F	Cooling Degree Days (CDD) 50°F day	Climate Zone
Abiquiu Dam	Rio Arriba	6380	5872		5B
Angel Fire	Colfax	8406	9769	195	7B
Alamogordo	Otero	4350	3053	5309	3B
Albuquerque	Bernalillo	5312	4332	4462	4B
Artesia	Eddy	3380	3366	5374	3B
Aztec Ruins	San Juan	5644	5757		5B
Belen	Valencia	4800	4432	5012	3B
Bernalillo	Sandoval	5052	4782	4138	4B
Bloomfield	San Juan	5456	5490		5B
Bosque del Apache	Socorro	4520	3916	5012	3B
Carlsbad	Eddy	3295	2813	5997	3B
Carrizozo	Lincoln	5438	4234	3631	4B
Cedar Crest	Bernalillo	6581	5703		5B
Chaco Canyon	San Juan	6200	6137		5B
Chama	Rio Arriba	7871	8254		6B
Clayton	Union	5056	5150	3170	4B
Cloudcroft	Otero	8801	7205		6B
Clovis	Curry	4268	4033	4252	4B
Corona	Valencia	6690	5389	3631	4B
Cuba	Sandoval	7035	7122		5B
Deming	Luna	4305	3347	5292	3B
Dulce	Rio Arriba	6793	7979		6B
Eagle Nest	Colfax	8262	9254		7B
Edgewood	Santa Fe	6649	6146		5B
Espanola	Rio Arriba	5643	5641		5B
Farmington	San Juan	5395	5747		5B

Fence Lake	Cibola	7055	6396		5B
Fort Sumner	De Baca	4032	3799	4616	3B
Gallup	McKinley	6465	6207		5B
Glenwood	Catron	4725	3632	4427	4B
Grants	Cibola	6460	6143		5B
Hatch	Dona Ana	4052	3270	5904	3B
Hobbs	Lea	3622	2954	5181	3B
Jemez Springs	Sandoval	6198	5260	2059	4B
Las Cruces	Dona Ana	4000	3223	5904	3B
Las Vegas	San Miguel	6424	5738		5B
Lordsburg	Hidalgo	4250	3213	5210	3B
Los Alamos	Los Alamos	7320	6381		5B
Los Lunas	Valencia	4856	4725	4462	4B
Magdalena	Socorro	6572	5074	2093	4B
Mescalero	Otero	6611	5540		5B
Moriarty	Torrance	6220	4735	3786	4B
Mosquero	Harding	5485	5209	3631	4B
Mountainair	Torrance	6520	5558		5B
Organ	Dona Ana	5245	3215	4919	3B
Placitas	Sandoval	5955	4917	3701	4B
Portales	Roosevelt	4006	3845	4347	4B
Raton	Colfax	6680	6001		5B
Red River	Taos	8671	8742	179	7B
Reserve	Catron	5847	5483		5B
Rio Rancho	Sandoval	5282	4880	3949	4B
Roswell	Chaves	3573	3565	5505	3B
Ruidoso	Lincoln	6920	6309		5B
Sandia Crest	Bernalillo	10680	10034		7B
Sandia Park	Bernalillo	7077	7510		6B
Santa Fe	Santa Fe	7260	6001		5B
Santa Rosa	Guadalupe	4620	3749	4714	3B
Shiprock	San Juan	4892	5475		5B
Silver City	Grant	5895	4438	3975	4B
Socorro	Socorro	4603	3984	5147	3B
Springer	Colfax	5797	5653		5B
Taos	Taos	6967	6827		5B
Taos Ski Valley	Taos	9321	9769		7B
Tatum	Lea	3999	3680	4721	3B
Thoreau	McKinley	7200	5789		5B
Tierra Amarilla	Rio Arriba	7425	7901		6B
Tijeras	Bernalillo	6322	6338		5B
Tohatchi	McKinley	6447	5418		5B
Truth or Consequences	Sierra	4245	3394	5103	3B
Tucumcari	Quay	4096	3767	4429	4B
Tularosa	Otero	4508	3056	5130	3B

Zuni	McKinley	6293	5742		5B

[14.7.6.11 NMAC - Rp, 14.7.6.11 NMAC, 9/25/2020]

14.7.6.12 CHAPTER 4 - RESIDENTIAL ENERGY EFFICIENCY: See this Chapter of the IECC except for the following:

A. R401.2 Compliance. Delete the text of this section and replace with the following: projects shall comply with 401 through 404, which are mandatory provisions, and additionally comply with one of the following:

(1) Documents showing 2018 IECC Code Compliance, residential provisions approved by CID or worksheet trade-off sheets from the New Mexico energy conservation code residential applications manual; or

(2) Section R405.

(3) The energy rating index (ERI) approach in Section R406.

(4) The approved sampling protocols included in Chapter 6 of the National Standard for Home Energy Ratings.

(5) Code programs recognized by the state of New Mexico such as Build Green New Mexico or LEED-H, approved under IECC section 102.1.1, except strike the last sentence that reads: The requirements identified as "mandatory" in Chapter 4 shall be met.

B. R402.2.8 Floors. Delete the text of this section and replace with the following: Floor framing-cavity insulation when separating conditioned and non-conditioned space shall be installed to maintain permanent contact with the underside of the subfloor decking.

Exception: As an alternative, the floor framing-cavity insulation shall be in contact with the topside of sheathing or continuous insulation installed on the bottom side of floor framing where combined with insulation that meets or exceeds the minimum wood frame wall R-value in Table R402.1.2 and that extends from the bottom to the top of all perimeter floor-framing members.

C. R402.4.1 Building thermal envelope. Amending to read as follows: The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.3 with optional compliance of R402.4.1.2 by all counties not mentioned in subsection F below.

D. R402.4.1.2 Testing. Amend to read as follows: The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding four air changes per hour in Climate Zones 1 thru 8. Testing shall be conducted in accordance with RESNET/ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inch w.g. (50 Pascals).

E. R402.4.1.3 Visual Inspection Option. Add the following section: Building envelope tightness, and insulation installation shall be considered acceptable with the items listed in Table 402.1.2 applicable to the method of construction, if field verified by either the builder, a code official, or an energy rater using the state of New Mexico acceptable processes. Acceptable processes include a thermal bypass visual inspection checklist, a thermal bypass certification or checklist from a HERS rater, a Build green NM checklist, or an energy star program checklist from the New Mexico Energy, Minerals and Natural Resources Department.

F. R402.4.1.4 Based on census. Add new section to read as follows: Based on census rural urban mapping the following areas will be required to comply with R402.4.1, R402.4.1.2 Testing and R403.3.3 Duct testing: San Juan County, Sandoval County, Santa Fe County, Bernalillo County, Torrance County, and Dona County.

G. R402.4.1.5 State of New Mexico Thermal Bypass Inspection Checklist and Duct Sealing Visual Inspection Checklist. Add new section to read as follows: In accordance with section R402.4.1, R402.4.1.2 and R403.3.3 thermal bypass inspection checklist and Duct Sealing Visual Inspection Checklist will be provided at the time of issuance of building permit or can also be accessed at www.rld.State.nm.us/construction under forms and applications.

H. R403.1.1 Programmable thermostat. The thermostat controlling the primary heating or cooling system of the dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule to maintain different temperature setpoints at different times of the day. This thermostat shall include the capability to set back or temporarily operate the system to maintain zone temperatures of not less than 55°F (13°C) to not greater than 85°F (29°C). The thermostat shall be programmed initially by the manufacturer with a heating temperature setpoint of not greater than 70°F (21°C) and a cooling temperature setpoint of not less than 78°F.

Exceptions:

(1) When a water circulation system is utilized to heat and/or cool the residence, no programmable set back thermostat is required.

(2) Where the home is registered in a performance-based certification program, the

requirements for a programmable thermostat shall be waived.

(3) Where approved alternative methods of construction and/or materials are being used, programmable thermostats may be omitted.

I. R403.3.3 Duct testing (Mandatory). Add the following Exception: (3.) Duct sealing shall be considered in compliance with R403.3.3 when field, verified by either the builder, a code official, or an energy rater using the state of New Mexico duct sealing visual inspection checklist.

J. R403.4 Mechanical system piping insulation (Mandatory). Add the following Exception: In-floor radiant heating or cooling systems do not require insulation.

[14.7.6.12 NMAC - Rp, 14.7.6.12 NMAC, 9/25/2020]

14.7.6.13 CHAPTER 5 - BUILDINGS: See this Chapter of the IECC.

[14.7.6.13 NMAC - Rp 14.7.6.13 NMAC, 9/25/2020]

14.7.6.14 CHAPTER 6 - REFERENCED STANDARDS: See this Chapter of the IECC.

[14.7.6.14 NMAC - Rp 14.7.6.14 NMAC, 9/25/2020]

HISTORY OF 14.7.6 NMAC:

Pre NMAC History: None.

History of Repealed Material:

14.7.6 NMAC, 2003 New Mexico Energy Conservation Code (filed 5/27/2004) repealed 1/7/2004.
14.7.6 NMAC, 2006 New Mexico Energy Conservation Code (filed 8/16/2007) repealed 1/28/2011.
14.7.6 NMAC, 2009 New Mexico Energy Conservation Code (filed 12/28/2010) repealed 8/1/2011.
14.7.6 NMAC, 2009 New Mexico Energy Conservation Code (filed 6/15/2011) repealed 6/28/2013.
14.7.6 NMAC, 2009 New Mexico Energy Conservation Code (filed 6/28/2013) repealed 9/25/2020.

NMAC History:

14.7.6 NMAC, 2003 New Mexico Energy Conservation Code (filed 5/27/2004) replaced by 14.7.6 NMAC, 2006 New Mexico Energy Conservation Code, effective 1/1/2008.
14.7.6 NMAC, 2006 New Mexico Energy Conservation Code (filed 8/1622007) replaced by 14.7.6 NMAC, 2009 New Mexico New Mexico Energy Conservation Code, effective 1/28/2011.
14.7.6 NMAC, 2009 New Mexico Energy Conservation Code (filed 12/28/2010) replaced by 14.7.6 NMAC, 2009 New Mexico Energy Conservation Code, effective 8/1/2011.
14.7.6 NMAC, 2009 New Mexico Energy Conservation Code (filed 6/15/2011) replaced by 14.7.6 NMAC, 2009 New Mexico Energy Conservation Code, effective 6/28/2013.
14.7.6 NMAC, 2009 New Mexico Energy Conservation Code (filed 6/28/2013) replaced by 14.7.6 NMAC, 2018 New Mexico Energy Conservation Code, effective 9/25/2020.

TITLE 14 HOUSING AND CONSTRUCTION
CHAPTER 7 BUILDING CODES GENERAL
PART 9 2018 NEW MEXICO COMMERCIAL ENERGY CONSERVATION CODE

14.7.9.1 ISSUING AGENCY: Construction Industries Division (CID) of the Regulation and Licensing Department.
[14.7.9.1 NMAC – N, 9/25/2020]

14.7.9.2 SCOPE: This rule applies to all commercial contracting work performed in New Mexico on or after 9/25/2020, that is subject to the jurisdiction of CID, unless performed pursuant to a permit for which an application was received by CID before that date.
[14.7.9.2 NMAC – N, 9/25/2020]

14.7.9.3 STATUTORY AUTHORITY: Sections 60-13-9 and 60-13-44 NMSA 1978.
[14.7.9.3 NMAC – N, 9/25/2020]

14.7.9.4 DURATION: Permanent.
[14.7.9.4 NMAC, 9/25/2020]

14.7.9.5 EFFECTIVE DATE: September 25, 2020 unless a later date is cited at the end of a section.
[14.7.9.5 NMAC – N, 9/25/2020]
[From the date of publication of this rule in the New Mexico register, until month 3/2021 permits may be issued under either the previously-adopted rule, or this rule. After month 3/2021, permits may be issued only under this rule.]

14.7.9.6 OBJECTIVE: The purpose of this rule is to establish minimum standards for energy conservation for commercial construction in New Mexico.
[14.7.9.6 NMAC – N, 9/25/2020]

14.7.9.7 DEFINITIONS: See 14.5.1 NMAC, General Provisions and Chapter 2 of the IECC as amended in 14.7.6.10 NMAC.
[14.7.9.7 NMAC - N, 9/25/2020]

14.7.9.8 ADOPTION OF THE 2018 NEW MEXICO COMMERCIAL ENERGY CONSERVATION CODE:

A. This rule adopts by reference the 2018 international energy conservation code (IECC) commercial provisions, as amended by this rule.

B. In this rule, each provision is numbered to correspond with the numbering of the 2018 international commercial energy conservation code.

C. This rule is to be applied where appropriate to each of the following New Mexico building codes, including the NMCBC, NMEBC, NMPC, NMMC and the NMEC.
[14.7.9.8 NMAC - N, 9/25/2020]

14.7.9.9 CHAPTER 1 - ADMINISTRATION:

A. Section C101 - General.

(1) C101.1 Title. Delete this section of the IECC and substitute: this rule shall be known as 14.7.6 NMAC, the 2018 New Mexico Commercial Energy Conservation Code (MCECC).

(2) C101.2 Scope. Delete this section of the IECC and see 14.7.9.2 NMAC, Scope.

(3) C101.3 Intent. Delete this section of the IECC and see 14.7.9.6 NMAC, Objective.

(4) C101.5.1 Compliance materials. Delete this section of the IECC and substitute the following: the code official shall be permitted to approve specific computer software, worksheets, compliance manuals and other similar materials that meet the intent of this code, including but not limited to ComCheck, ResCheck, and worksheet or trade-off sheets from the New Mexico energy conservation code commercial applications manual issued by the New Mexico department of energy.

B. Section C102 Alternate Materials-Method of Construction, Design for Insulating Systems. See this section of the IECC.

C. Section C103 - Construction Documents. Delete this section of the IECC and see 14.5.2 NMAC, Permits except retain Section C103.2 and C103.6 to read as follows:

D. Section C103.2 Information on construction documents. Delete section and substitute the following: Ducts shall be installed in accordance with Chapter 6 and Chapter 17 of the New Mexico Mechanical Code and current applicable standards.

E. Section C103.6 Building documentation and closeout submittal requirements. Delete section and substitute the following: The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent.

F. Section C104 Fees. Delete this section of the IECC and see 14.5.5 NMAC, Fees.

G. Section C105 Inspections. Delete this section of the IECC and see. 14.5.3 NMAC, General Provisions.

H. Section C106 Validity. Delete this section of the IECC and see. 14.5.2.12 NMAC, Permits.

I. Section C107 Referenced Standards. All references in the IECC to the international building code shall be deemed references to 14.7.2 NMAC, the New Mexico Commercial Building Code (NMCBC). All references to the international plumbing code shall be deemed references to 14.8.2 NMAC, the New Mexico Plumbing Code (NMPC). All references to the international mechanical code shall be deemed references to 14.9.2 NMAC, the New Mexico Mechanical Code (NMMC). All references to the ICC or international electrical code shall be deemed references to 14.10.4 NMAC, the New Mexico Electrical Code (NMEC). All references to the international energy conservation code shall be deemed references to 14.7.9 NMAC, the New Mexico Commercial Energy Conservation Code (NMCECC). All references to the international fuel gas code are deemed references to the NMMC or the LP gas standards found at 19.15.40 NMAC, and Sections 70-5-1 through 70-5-23 NMSA 1978.

I. Section C108 Stop Work Order. Delete this section of the IECC and see 14.5.3 NMAC, Inspections.

J. Section C109 Board of Appeals. Delete this section of the IECC and See 14.5.1 NMAC, General Provisions.

[14.7.6.9 NMAC – N, 9/25/2020]

14.7.9.10 CHAPTER 2 - DEFINITIONS: See this chapter of the IECC substituting the definition for residential building and adding the other definitions.

A. Section C201.1 Scope. See this section of the IECC and add the following: If the same term is defined in the New Mexico construction codes and in the IECC, the term shall have the meaning given it in the New Mexico construction codes.

B. Section C201.3 Terms defined in other codes. Delete this section of the IECC and substitute with the following: Terms defined in the New Mexico Commercial Construction Code and the New Mexico Existing Building Code.

C. Section C202 General Definitions. See this section of the IECC and additionally the following:

(1) Unconditioned space. Add the following definition: Space within a building that is not mechanically heated or cooled and is outside the building thermal envelope.

(2) Vapor retarder class. Add the following definition: a measure of a material or assembly's ability to limit the amount of moisture that passes through that material or assembly. Vapor retarder class shall be defined using the desiccant method of ASTME96 as follows:

(a) class I: 0.1 perm or less;

(b) class II: > 0.1 perm □1.0 perm;

(c) class III: > 1.0 perm <10 perm.

(3) NMCECC means 2018 New Mexico Commercial Energy Conservation Code, which adopts by reference and amends the 2009 International Energy Conservation Code.

(4) NMCBC 14.7.3 NMAC, 2015 New Mexico Commercial Building Code, which adopts by reference and amends the 2015 International Commercial Code.

(5) NMEBC means the 2015 New Mexico Existing Building Code, which adopts by reference and amends the 2015 International Existing Building Code.

(6) NMPC means 2015 New Mexico Plumbing Code, which adopts by reference and amends the 2012 Uniform Plumbing Code.

(7) NMMC means 14.9.2 NMAC, NMMC 2015 New Mexico Mechanical Code, which adopts by reference and amends the 2012 Uniform Mechanical Code.

(8) NMEC means 14.10.4 NMAC, NMEC 2017 New Mexico Electrical Code, which adopts by reference and amends the 2017 National Electrical Code.

(9) **RESNET Software** is an approved software program to meet the performance requirements of the IECC.

(10) **COMCHECK** is the commercial energy compliance tool of the U.S. Department of Energy designed to clarify commercial energy code compliance providing a user information whether or not a building meets the requirements of the International Energy Conservation Code (IECC) and ASHRAE 90.1, as well as state-specific codes.

(11) **RESCHECK** is a document describing the overall efficiency of the insulation of a building which works by performing a simple U-factor x Area (UA) calculation for each building assembly to determine the overall UA of a building. The UA of the proposed project building is compared to the code requirements.

(12) **ASTM** means the American society for testing and materials, is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials utilized in construction.

(13) **HERS** means the home energy rating system index and is the industry standard by which a home's energy efficiency is measured. It's also the nationally recognized system for inspecting and calculating a home's energy performance.

[14.7.9.10 NMAC, N, 9/25/2020]

14.7.9.11 CHAPTER C301 - CLIMATE ZONES: See this Chapter of the IECC except delete the text of section 301.1 General and replace with the following: the table below in conjunction with Table 301.3(2) shall be used to determine the applicable requirements for Chapter 4. Locations not listed in the table below shall use either Table 301.1, Section 301.3 or the building official may designate a climate zone consistent with the elevation, HDD & CDD from the table below.

Table 301.2
New Mexico Climate Zones Based on Heating and Cooling Degree Days

City	County	Elev. (feet)	Heating Degree Days (HDD) 65°F	Cooling Degree Days (CDD) 50°F day	Climate Zone
Abiquiu Dam	Rio Arriba	6380	5872		5B
Angel Fire	Colfax	8406	9769	195	7B
Alamogordo	Otero	4350	3053	5309	3B
Albuquerque	Bernalillo	5312	4332	4462	4B
Artesia	Eddy	3380	3366	5374	3B
Aztec Ruins	San Juan	5644	5757		5B
Belen	Valencia	4800	4432	5012	3B
Bernalillo	Sandoval	5052	4782	4138	4B
Bloomfield	San Juan	5456	5490		5B
Bosque del Apache	Socorro	4520	3916	5012	3B
Carlsbad	Eddy	3295	2813	5997	3B
Carrizozo	Lincoln	5438	4234	3631	4B
Cedar Crest	Bernalillo	6581	5703		5B
Chaco Canyon	San Juan	6200	6137		5B
Chama	Rio Arriba	7871	8254		6B
Clayton	Union	5056	5150	3170	4B
Cloudcroft	Otero	8801	7205		6B
Clovis	Curry	4268	4033	4252	4B
Corona	Valencia	6690	5389	3631	4B
Cuba	Sandoval	7035	7122		5B
Deming	Luna	4305	3347	5292	3B

Dulce	Rio Arriba	6793	7979		6B
Eagle Nest	Colfax	8262	9254		7B
Edgewood	Santa Fe	6649	6146		5B
Espanola	Rio Arriba	5643	5641		5B
Farmington	San Juan	5395	5747		5B
Fence Lake	Cibola	7055	6396		5B
Fort Sumner	De Baca	4032	3799	4616	3B
Gallup	McKinley	6465	6207		5B
Glenwood	Catron	4725	3632	4427	4B
Grants	Cibola	6460	6143		5B
Hatch	Dona Ana	4052	3270	5904	3B
Hobbs	Lea	3622	2954	5181	3B
Jemez Springs	Sandoval	6198	5260	2059	4B
Las Cruces	Dona Ana	4000	3223	5904	3B
Las Vegas	San Miguel	6424	5738		5B
Lordsburg	Hidalgo	4250	3213	5210	3B
Los Alamos	Los Alamos	7320	6381		5B
Los Lunas	Valencia	4856	4725	4462	4B
Magdalena	Socorro	6572	5074	2093	4B
Mescalero	Otero	6611	5540		5B
Moriarty	Torrance	6220	4735	3786	4B
Mosquero	Harding	5485	5209	3631	4B
Mountainair	Torrance	6520	5558		5B
Organ	Dona Ana	5245	3215	4919	3B
Placitas	Sandoval	5955	4917	3701	4B
Portales	Roosevelt	4006	3845	4347	4B
Raton	Colfax	6680	6001		5B
Red River	Taos	8671	8742	179	7B
Reserve	Catron	5847	5483		5B
Rio Rancho	Sandoval	5282	4880	3949	4B
Roswell	Chaves	3573	3565	5505	3B
Ruidoso	Lincoln	6920	6309		5B
Sandia Crest	Bernalillo	10680	10034		7B
Sandia Park	Bernalillo	7077	7510		6B
Santa Fe	Santa Fe	7260	6001		5B
Santa Rosa	Guadalupe	4620	3749	4714	3B
Shiprock	San Juan	4892	5475		5B
Silver City	Grant	5895	4438	3975	4B
Socorro	Socorro	4603	3984	5147	3B
Springer	Colfax	5797	5653		5B
Taos	Taos	6967	6827		5B
Taos Ski Valley	Taos	9321	9769		7B
Tatum	Lea	3999	3680	4721	3B
Thoreau	McKinley	7200	5789		5B
Tierra Amarilla	Rio Arriba	7425	7901		6B

Tijeras	Bernalillo	6322	6338		5B
Tohatchi	McKinley	6447	5418		5B
Truth or Consequences	Sierra	4245	3394	5103	3B
Tucumcari	Quay	4096	3767	4429	4B
Tularosa	Otero	4508	3056	5130	3B
Zuni	McKinley	6293	5742		5B

[14.7.9.11 NMAC – N, 9/25/2020]

14.7.9.12 CHAPTER 4 - COMMERCIAL ENERGY EFFICIENCY: See this Chapter of the IECC except for the following:

A. Section C402.4.2.1 Lighting controls in toplit daylight zones. Delete section without substitution.

B. Section C405.2.3.3 Toplit zone. Delete section without substitution.

C. Section C405.5 Dwelling electrical meter (Mandatory). Amend to read as follows: Each dwelling unit located in a Group R-2 building shall have a separate electrical meter. Dormitories, fraternities, sororities, monasteries, and convents shall be exempt from the requirements of this section.

D. Section C405.9 Voltage drop in branch circuits supplying motors or motor driven mechanical equipment with a rating of 50 HP and higher. Amending to read as follows: The total voltage drop across branch circuits supplying motors or motor driven mechanical equipment with rating of 50 HP and higher shall not exceed 5 percent.

E. C408.2 Mechanical systems and service water-heating systems commissioning and completion requirements. Amending to read as follows: Prior to the final mechanical and plumbing inspections, the registered design professional or approved agency, shall provide evidence of mechanical systems commissioning and completion in accordance with the provisions of this section. Construction document notes shall clearly indicate provisions for commissioning requirements in accordance with this section and are permitted to refer to specifications for further requirements. Copies of all documentation shall be given to the building owner or owner's authorized agent.

Exceptions: The following systems are exempt:

(1) Mechanical systems and service water heater systems in buildings where the total mechanical equipment capacity is less than 480,000 Btu/h (140.7 kW) cooling capacity and 600,000 Btu/h (175.8 kW) combined service water-heating and space-heating capacity.

(2) Systems included in Section C403.5 that serve individual dwelling units and sleeping units.

F. C408.2.4.1 Acceptance of report. Delete section without substitution.

G. C408.2.4.2 Copy of report. Delete section without substitution**.**

H. C408.2.5 Documentation requirements. Change section to read as follows. The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent.

I. C408.3.2 Documentation Requirements. Change section to read as follows: The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent.

FIGURE C408.2.4
COMMISSIONING COMPLIANCE CHECKLIST

Project Information: _____ Project Name:_____

Project Address: _____

Commissioning Authority: _____

Commissioning Plan (Section C408.2.1)

- ❑ Commissioning Plan was used during construction and includes all items required by Section C408.2.1
- ❑ Systems Adjusting and Balancing shall be completed per plans and specifications.
- ❑ HVAC Equipment Functional Testing shall be completed per plans and specifications.
- ❑ HVAC Controls Functional Testing shall be completed per plans and specifications.
- ❑ Economizer Functional Testing shall be completed per plans and specifications.
- ❑ Lighting Controls Functional Testing shall be completed per plans and specifications.
- ❑ Service Water Heating System Functional Testing shall be completed per plans and specifications.
- ❑ Manual, record documents and training shall be completed per plans and specifications.
- ❑ Preliminary Commissioning Report shall be submitted to owner and includes all items required by Section C408.2.4.
- ❑ The above-referenced items are scheduled to be provided on:

I, the commissioning provider, do hereby certify that I am providing the owner or owner's representative with documentation as to the mechanical, service water heating and lighting systems commissioning in accordance with the 2018 IECC.

_____ _____
Signature of Commissioning Provider Date

_____ _____
Signature of Building Owner/Owner's Representative Date

[14.7.6.12 NMAC – N, 9/25/2020]

14.7.9.13 CHAPTER 5 - EXISTING BUILDINGS: See this Chapter of the IECC.
[14.7.9.13 NMAC - N, 9/25/2020]

14.7.9.14 CHAPTER 6 - REFERENCED STANDARDS: See this Chapter of the IECC.
[14.7.9.14 NMAC – N, 9/25/2020]

HISTORY OF 14.7.9 NMAC: [RESERVED]

Summary of Significant Changes – 2009 to 2018 IECC as amended & adopted by State of NM

Residential

- Envelope leakage testing and duct leakage testing (with added exceptions by the State) are required.
- Duct and envelope testing requirements are more stringent than in the 2009 IECC.
- Improved window performance with prescriptive path
- Building thermal envelope UA (overall home thermal transmittance value) alternative enhanced requirements
- Efficient lighting requirement has changed from 50% to 90%
- Hot water piping insulation requirement increased
- Energy Rating Index (ERI) performance path added (not equivalent to HERS and will not be allowed under current City Green Code requirements).

Commercial

- Commissioning - HVAC and water heating functional testing by 3rd party commissioning agency required
- Building energy performance compliance report required for building permitting
- HVAC – new equipment efficiencies, additional requirements for ventilation systems and lighting
- Water heating – improved efficiency and controls
- Lighting – enhanced occupancy sensors and daylighting controls requirements