ORDINANCE NO. _____________

AN ORDINANCE TO AMEND CHAPTER 8 OF THE LITTLE ROCK CODE OF ORDINANCES (1988) TO ADOPT STANDARDS FOR DUCT TESTING AND OTHER STANDARDS FOR ENERGY CONSERVATION, FOR NEW RESIDENTIAL STRUCTURES WITH AMENDMENTS HEREIN; AND FOR OTHER PURPOSES.

WHEREAS, Little Rock customers spend millions of dollars annually for electricity and natural gas services; and

WHEREAS, more efficient buildings can conserve energy, reduce stress on our electricity grid and natural gas supplies while saving money and resources for our citizens; and

WHEREAS, existing State adopted and amended 2014 AR Energy Code is inferior in comparison to the standards that are being proposed; and

WHEREAS, such amendments are appropriate and necessary for the health, safety and welfare of citizens.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE CITY OF LITTLE ROCK, ARKANSAS.

Section 1. This section of Little Rock, AR. Revised Code (1988) Sec. 8-562 is hereby amended to add the following language;

Sec. 8-562-Duct Testing (Heating and Air)

(1) New Residential Construction.
Duct testing shall be required for all new single-family residential and multi-family structures. Residential developments that utilize the exact same floor plan multiple times are required to have duct testing completed on a minimum of 20% of residential units.

(2) Addition, Alterations and Renovations.
Additions, alterations and renovations to existing residential structures shall not be required to comply with the duct testing requirements, but shall be required to comply with the 2014 Sr. Energy Code and 2010 AR Mechanical Code duct sealing requirements.

(3) Repairs.
All repairs to existing residential structures and mechanical systems shall not be required to comply with the duct testing requirements, but shall be required to comply with the 2014 AR Energy Code and 2010 AR Mechanical Code duct sealing requirements.
Duct Tester Qualifications

The duct tester shall be certified by one of the following:

(A) Residential Energy Services Network Certified Rater (RSNET) or equivalent

(B) Building Performance Institute Certified Rater (BPI)

(C) AR HVACR Association Certified Duct Tester

Sec. 8-563-Duct Testing Criteria:

Duct Testing shall be verified by either of the following:

(1) Rough-In Test:

Total leakage shall be less than or equal to 6 cfm (169.9L/min) per 100 ft² (9.29m²) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the roughed in system, including the manufacturer’s air handler enclosure. All register boots shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 4 cfm (113.1L/min) per 100 ft² (9.29m²) of conditioned floor area.

(2) Post Construction test:

Leakage to outdoors shall be less than or equal to 8 cfm (226.5 L/min) per 100 ft² (9.29m²) of conditioned floor area or a total leakage less than or equal to 12 cfm (12 L/min) per 100ft² (9.29m²) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25Pa) across the entire system, including the manufacturer’s air handler enclosure. All register boots shall be taped or otherwise sealed during the test.

Exceptions: Duct tightness test is not required if the air handler and all ducts are located within conditioned space.

(3) Duct testing compliance and verification:

The tester shall provide (City-provided form) within five (5) days of completion to the Building Codes Division, the results of the test and that the duct testing complies with 8-563(1) or 8-563(2). A Certificate of Occupancy shall not be issued without completion verification and compliance with the duct testing requirements.

(4) Sticker:

The 2014 AR. Energy Code label shall be completed and posted permanently on the electrical distribution panel and front entrance of structure. The sticker may be removed from the front entrance after occupancy or sale of the property. Under other info the date of duct testing shall be noted.

Sec. 8-564-Blower Door Testing (Spray Foam Insulated Structures)

(1) New Residential Construction:
Blower Door Testing shall be required for all new single family residential and multi-family structures. Residential developments that utilize the exact same floor plan multiple times are required to have blower door testing completed on a minimum of 20% of residential units.

(2) Addition, Alterations and Renovations:
Additions, alterations and renovations to existing residential structures shall not be required to comply with blower door testing requirements, but shall be required to comply with the 2014 AR Energy Code and 2010 AR Mechanical Code.

(3) Repairs:
All repairs to existing residential structures and mechanical systems shall not be required to comply with the blower door testing requirements, but shall be required to comply with the 2014 AR Energy Code and 2010 AR Mechanical Code.

(4) Blower Door Testing Qualifications:
The duct tester shall be certified by the following:

(A) Residential Energy Services Network (RSNET) Certified Energy Rater or equivalent.

Sec.8-564 Blower Door Testing Criteria:

(3) Blower Door Testing and compliance and Verification:
The tester shall provide (City-provided form) within five (5) days of completion to the Building Codes Division, the results of the test and that the blower door test complies with the code. A Certificate of Occupancy shall not be issued without completion verification and compliance with the testing requirements.

(4) Sticker:
The 2014 AR Energy Code label shall be completed and posted permanently on the electrical distribution panel and front entrance to the residential structure. The sticker may be removed from the front entrance after occupancy or sale of the property. The date of blower door testing results shall be noted.

Section 2. That in order to adequately prepare the residential construction industry for the duct testing and the related new testing requirements, the effective date of the new code shall be implemented as follows:

(1) This ordinance shall be in full force and effect six (6) months from the date of its passage for all new residential structures permitted on or after this date.
PASSED: March 20, 2018

ATTEST:                                       APPROVED:

____________________________________  __________________________________
Susan Langley, City Clerk                Mark Stodola, Mayor

APPROVED AS TO LEGAL FORM:

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Thomas M. Carpenter, City Attorney

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