1	ORDINANCE NO.		
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3	AN ORDINANCE TO AMEND CHAPTER 8 OF THE LITTLE ROCK		
4	CODE OF ORDINANCES (1988) TO ADOPT STANDARDS FOR DUCT		
5	TESTING AND OTHER STANDARDS FOR ENERGY CONSERVATION,		
6	FOR NEW RESIDENTIAL STRUCTURES WITH AMENDMENTS		
7	HEREIN; AND FOR OTHER PURPOSES.		
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9	WHEREAS, Little Rock customers spend millions of dollars annually for electricity and natural gas		
10	services; and		
11	WHEREAS, more efficient buildings can conserve energy, reduce stress on our electricity grid and		
12	natural gas supplies while saving money and resources for our citizens; and		
13	WHEREAS, existing State adopted and amended 2014 AR Energy Code is inferior in comparison to		
14	the standards that are being proposed; and		
15	WHEREAS, such amendments are appropriate and necessary for the health, safety and welfare of		
16	citizens.		
17	NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE CITY		
18	OF LITTLE ROCK, ARKANSAS.		
19	Section 1. This section of Little Rock, AR. Revised Code (1988) Sec. 8-562 is hereby amended to		
20	add the following language;		
21	Sec. 8-562-Duct Testing (Heating and Air)		
22	(1) New Residential Construction.		
23	Duct testing shall be required for all new single-family residential and multi-family		
24	structures. Residential developments that utilize the exact same floor plan multiple times		
25	are required to have duct testing completed on a minimum of 20% of residential units.		
26	(2) Addition, Alterations and Renovations.		
27	Additions, alterations and renovations to existing residential structures shall not be		
28	required to comply with the duct testing requirements, but shall be required to comply		
29	with the 2014 Sr. Energy Code and 2010 AR Mechanical Code duct sealing		
30	requirements.		
31	(3) Repairs.		
32	All repairs to existing residential structures and mechanical systems shall not be required		
33	to comply with the duct testing requirements, but shall be required to comply with the		
34	2014 AR Energy Code and 2010 AR Mechanical Code duct sealing requirements.		

1	(4) Duct Tester Qualifications			
2	The duct tester shall be certified by one of the following:			
3	(A) Residential Energy Services Network Certified Rater (RSNET) or equivalent			
4	(B) Building Performance Institute Certified Rater (BPI)			
5	(C) AR HVACR Association Certified Duct Tester			
6	Sec. 8-563-Duct Testing Criteria:			
7	Duct Testing shall be verified by either of the following:			
8	(1) Rough-In Test:			
9	Total leakage shall be less than or equal to 6 cfm (169.9L/min) per 100 ft <sup>2</sup> (9.29m <sup>2</sup> ) of			
10	conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa)			
11	across the roughed in system, including the manufacturer's air handler enclosure. All			
12	register boots shall be taped or otherwise sealed during the test. If the air handler is not			
13	installed at the time of the test, total leakage shall be less than or equal to 4 cfm			
14	(113.L/min) per 100 ft <sup>2</sup> (9.29m <sup>2</sup> ) of conditioned floor area.			
15	(2) Post Construction test:			
16	Leakage to outdoors shall be less than or equal to 8 cfm (226.5 L/min) per 100 $ft^2$			
17	(9.29m <sup>2</sup> ) of conditioned floor area or a total leakage less than or equal to 12 cfm (12			
18	L/min) per $100ft^2$ (9.29m <sup>2</sup> ) of conditioned floor area when tested at a pressure			
19	differential of 0.1 inches w.g. (25Pa) across the entire system, including the			
20	manufacturer's air handler enclosure. All register boots shall be taped or otherwise			
21	sealed during the test.			
22	Exceptions: Duct tightness test is not required if the air handler and all ducts are located			
23	within conditioned space.			
24	(3) Duct testing compliance and verification:			
25	The tester shall provide (City-provided form) within five (5) days of completion to the			
26	Building Codes Division, the results of the test and that the duct testing complies with 8-			
27	563(1) or 8-563(2). A Certificate of Occupancy shall not be issued without completion			
28	verification and compliance with the duct testing requirements.			
29	(4) Sticker:			
30	The 2014 AR. Energy Code label shall be completed and posted permanently on the			
31	electrical distribution panel and front entrance of structure. The sticker may be removed			
32	from the front entrance after occupancy or sale of the property. Under other info the date			
33	of duct testing shall be noted.			
34	Sec. 8-564-Blower Door Testing (Spray Foam Insulated Structures)			
35	(1) New Residential Construction:			
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1	Blower Door Testing shall be required for all new single family residential and multi-		
2	family structures. Residential developments that utilize the exact same floor plan		
3	multiple times are required to have blower door testing completed on a minimum of 20%		
4	of residential units.		
5	(2) Addition, Alterations and Renovations:		
6	Additions, alterations and renovations to existing residential structures shall not be		
7	required to comply with blower door testing requirements, but shall be required to		
8	comply with the 2014 AR Energy Code and 2010 AR Mechanical Code.		
9	(3) Repairs:		
10	All repairs to existing residential structures and mechanical systems shall not be required		
11	to comply with the blower door testing requirements, but shall be required to comply		
12	with the 2014 AR Energy Code and 2010 AR Mechanical Code.		
13	(4) Blower Door Testing Qualifications:		
14	The duct tester shall be certified by the following:		
15	(A) Residential Energy Services Network (RSNET) Certified Energy Rater or		
16	equivalent.		
17	Sec.8-564 Blower Door Testing Criteria:		
18	Blower Door Testing and compliance shall meet the 2014 AR Energy Code and 2010 AR		
19	Mechanical Code for foam insulated structures.		
20	(3) Blower Door Testing and compliance and Verification:		
21	The tester shall provide (City-provided form) within five (5) days of completion to the		
22	Building Codes Division, the results of the test and that the blower door test complies		
23	with the code. A Certificate of Occupancy shall not be issued without completion		
24	verification and compliance with the testing requirements.		
25	(4) Sticker:		
26	The 2014 AR Energy Code label shall be completed and posted permanently on the		
27	electrical distribution panel and front entrance to the residential structure. The sticker		
28	may be removed from the front entrance after occupancy or sale of the property. The		
29	date of blower door testing results shall be noted.		
30	Section 2. That in order to adequately prepare the residential construction industry for the duct		
31	testing and the related new testing requirements, the effective date of the new code shall be implemented		
32	as follows:		
33	(1) This ordinance shall be in full force and effect six (6) months from the date of its		
34	passage for all new residential structures permitted on or after this date.		
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1	PASSED: March 20, 2018	
2	ATTEST:	APPROVED:
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4 5	Susan Langley, City Clerk	Mark Stodola, Mayor
6	APPROVED AS TO LEGAL FORM:	
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8 9	Thomas M. Carpenter, City Attorney	
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