1	ORDINANCE NO.
2	
3	AN ORDINANCE TO AMEND CHAPTER 8 OF THE REVISED CODE OF
4	ORDINANCES OF THE CITY OF LITTLE ROCK, ARKANSAS, TO
5	PROVIDE FOR THE ADOPTION OF THE 2009 INTERNATIONAL
6	ENERGY CONSERVATION CODE, FOR RESIDENTIAL STRUCTURES
7	WITH AMENDMENTS HERIN AND FOR OTHER PURPOSES.
8	
9	WHEREAS, Little Rock customers spend millions of dollars annually for electricity and natural gar
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 the State adopted and amended 2014 AR Energy Code is inferior in comparison
14	with the 2009 International Energy Conservation Code; and
15	WHEREAS, pursuant to A.C.A §14-55-206, the City of Little Rock has published a notice of intent to
16	adopt and require all new residential construction and additions, alterations and renovations to comply with
17	the 2009 International Energy Conservation Code, three (3) copies of which are available for public
18	inspection and review in the City Clerk's Office.
19	WHEREAS, such amendments are appropriate and necessary for the health, safety and welfare o
20	citizens.
21	NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE CITY
22	OF LITTLE ROCK, ARKANSAS:
23	Section 1. This section of Little Rock, AR. Revised Code (1988) Sec. 8-2(7) is hereby deleted in its
24	entirety and the following language substituted therefore:
25	Sec 8-2 Codes Adopted
26	(7) The 2009 International Energy Conservation Code with amendments and supplements.
27	(A) Commercial. The Arkansas Energy Code, its Rules and Regulations as adopted and
28	promulgated by the Arkansas Energy Office, and as from time to time hereafter may be
29	amended, is hereby adopted by reference pursuant to A.C.A. §14-55-206.
30	(B) Residential. The 2009 International Energy Conservation Code (IECC) is hereby
31	adopted by reference for all new residential structures with the exception of §107 Fees and
32	§109 Board of Appeals.
33	(1) New residential construction.
34	The 2009 IECC is hereby amended by adding a provision requiring a Home Energy
35	Rating System (HERS) Index Rating for new residential construction. The City of

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1		Little Rock requires that all new residential construction have a HERS Index
2		Rating completed by an independent Residential Energy Services Network
3		(RESNET) Certified Home Energy Raters, or equivalent, prior to the issuance of
4		a Certificate of Occupancy. Residential developments that utilize the exact same
5		floor plan multiple times are required to have a HERS Index Rating completed on
6		a minimum of 20% of the residential units. As per Chapter Six of the RESNET
7		standards.
8	(2)	Sticker.
9		A sticker provided by the City shall be posted in a very visible location near the
10		front entrance to the residential structure indicating the estimated monthly and five
11		(5)-year utility cost as derived from the HERS Rating until the structure is sold, or
12		for at least ninety (90) days, whichever is less.
13	(3)	Additions, Alteration and renovations.
14		All additions, alterations and renovations to existing residential structures shall
15		comply with the standards of the 2009 IECC, but shall not be required to provide
16		a HERS Index Rating or post a sticker. Where it is shown to be impractical to meet
17		the 2009 IECC. "The Building Official may permit additions to comply with the
18		Rules and Regulations as adopted and promulgated by the Arkansas Energy Office,
19		and as from time to time hereafter may be amended."
20	(4)	Repairs.
21		All repairs to existing residential structures and mechanical systems need only be
22		constructed to at least the same energy conservation standard as the damaged
23		structure or mechanical system which needed repair unless a higher standard is
24		required by the 2009 IECC.
25	(5)	Fees.
26		The Fees Section 107 shall be removed from the 2009 IECC to reflect that only
27		the City Board of Directors can set required fees and any refund policy, the "Code
28		Official" cannot set fees nor a refund policy. All fees shall be as prescribed in the
29		1988 Little Rock Code of Ordinances.
30	(6)	Spray foam insulation.
31		Spray application of polyurethane foam to the exterior of ducts in attics and crawl
32		spaces shall be permitted subject to all of the following.
33		A. The Flame Spread Index is not greater than twenty-five (25) and the
34		smoke-developed index is not greater than 450 at the specified installed
35		thickness.

1	B.	. The foam plastic is protected in accordance with the ignition barrier		
2		requirements.		
3	C.	The foam plastic complies with the requirements of Section R316.		
4	D.	Duct coverings and linings shall not flame, glow, smolder or smoke when		
5		tested in accordance with the American Society for Testing Materials		
6		(ASTM) C 411 at the temperature to which they are exposed in service.		
7		The test temperature shall not fall below 250°F (121°C). Coverings and		
8		linings shall be listed and labeled.		
9	E.	External duct insulation and factory-insulated flexible ducts shall be		
10		legibly printed or identified at intervals not longer than thirty-six (36)		
11		inches (914 mm) with the name of the manufacturer, the thermal resistance		
12		R-value at the specified installed thickness and the flame spread and		
13		smoke-developed indexes of the composite materials. Spray polyurethane		
14		foam manufacturers shall provide the same product information and		
15		properties, at the nominal installed thickness, to the customer in writing at		
16		the time of foam application. All duct insulation product R-values shall be		
17		based on insulation only, excluding air films, vapor retarders or other duct		
18		components, and shall be based on tested C-values at 75°F (24°C) mean		
19		temperature at the installed thickness, in accordance with recognized		
20		industry procedures. The installed thickness of duct insulation used to		
21		determine its R-value shall be determined as follows:		
22	F.	For duct board, duct liner and factory-made rigid ducts not normally		
23		subjected to compression, the nominal insulation thickness shall be used.		
24	G.	For ductwrap, the installed thickness shall be assumed to be 75% (25%		
25		compression) of nominal thickness.		
26	H.	For factory-made flexible air ducts, the installed thickness shall be		
27		determined by dividing the difference between the actual outside diameter		
28		and nominal inside diameter by two.		
29	I.	For spray polyurethane foam, the aged R-value per inch measured in		
30		accordance with recognized industry standards shall be provided to the		
31		customer in writing at the time of foam application. In addition, the total		
32		R-value for the nominal application thickness shall be provided.		
33	(7) Ap	Appeals.		
34	Th	The Board of Appeals Section 109 shall be removed from the 2009 IECC and have		
35	no	no force or application. Appeals of the Building Official's interpretation of this		

1	Energy Code shall be heard by the existing Board of Construction Appeals and no							
2	new Board of Appeals for interpreting the 2009 IECC shall be created by this Code.							
3	Section 2. That in order to adequately prepare the residential construction industry for the 2009 IECO							
4	and the related new testing requirements, the effective date of the new code shall be implemented in stages							
5	as follov	as follows:						
6	(1) All provisions of the adopted 2009 IECC, as amended, shall become effective on September							
7		3, 2017, with the exception that a Ce	rtificate of Occupancy may be issued even if a residential					
8		structure does not pass the air sealir	ng/infiltration or duct sealing testing requirements.					
9	(2)	The HERS Index Rating and asso	ociated sticker requirements shall become effective on					
10		September 3, 2017.						
11	(3)	All provisions of the adopted 2009 l	ECC, as amended, shall be effective on January 1, 2018.					
12	PASSEI	D: May 16, 2017						
13	ATTES'	Т:	APPROVED:					
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15								
16	Susan L	angley, City Clerk	Mark Stodola, Mayor					
17	APPRO	VED AS TO LEGAL FORM:						
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20		M. Carpenter, City Attorney						
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