	ENERGY CONSERVATION CODE AMENDMENTS
	2013 GENERAL SESSION
	STATE OF UTAH
	<b>Chief Sponsor: Brad R. Wilson</b>
	Senate Sponsor: Curtis S. Bramble
Ι	LONG TITLE
(	General Description:
	This bill amends the State Construction Code.
ł	Highlighted Provisions:
	This bill:
	<ul> <li>adopts the 2012 edition of the International Energy Conservation Code;</li> </ul>
	<ul> <li>modifies certain provisions of the International Energy Conservation Code; and</li> </ul>
	<ul> <li>modifies certain energy provisions of the International Residential Code.</li> </ul>
I	Money Appropriated in this Bill:
	None
(	Other Special Clauses:
	This bill takes effect on July 1, 2013.
l	Utah Code Sections Affected:
ŀ	AMENDS:
	15A-2-103, as last amended by Laws of Utah 2012, Chapter 76
	15A-3-203, as enacted by Laws of Utah 2011, Chapter 14
	15A-3-701, as enacted by Laws of Utah 2011, Chapter 14
l	Uncodified Material Affected:
E	ENACTS UNCODIFIED MATERIAL

27 Be it enacted by the Legislature of the state of Utah:

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28	Section 1. Section 15A-2-103 is amended to read:
29	15A-2-103. Specific editions adopted of construction code of a nationally
30	recognized code authority.
31	(1) Subject to the other provisions of this part, the following construction codes are
32	incorporated by reference, and together with the amendments specified in Chapter 3, Statewide
33	Amendments to International Plumbing Code, and Chapter 4, Local Amendments Incorporated
34	as Part of State Construction Code, are the construction standards to be applied to building
35	construction, alteration, remodeling, and repair, and in the regulation of building construction,
36	alteration, remodeling, and repair in the state:
37	(a) the 2009 edition of the International Building Code, including Appendix J, issued
38	by the International Code Council;
39	(b) the 2009 edition of the International Residential Code, issued by the International
40	Code Council;
41	(c) the 2009 edition of the International Plumbing Code, issued by the International
42	Code Council;
43	(d) the 2009 edition of the International Mechanical Code, issued by the International
44	Code Council;
45	(e) the 2009 edition of the International Fuel Gas Code, issued by the International
46	Code Council;
47	(f) the 2011 edition of the National Electrical Code, issued by the National Fire
48	Protection Association;
49	(g) the [2009] 2012 edition of the International Energy Conservation Code, issued by
50	the International Code Council;
51	(h) subject to Subsection 15A-2-104(2), the HUD Code;
52	(i) subject to Subsection 15A-2-104(1), Appendix E of the 2009 edition of the
53	International Residential Code, issued by the International Code Council; and
54	(j) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model
55	Manufactured Home Installation Standard, issued by the National Fire Protection Association.
56	(2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire
57	Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
58	issued by the International Code Council, with the alternatives or amendments approved by the

59 Utah Division of Forestry, as a construction code that may be adopted by a local compliance

- agency by local ordinance or other similar action as a local amendment to the codes listed inthis section.
- 62 Section 2. Section **15A-3-203** is amended to read:

#### 63 15A-3-203. Amendments to Chapters 6 through 15 of IRC.

64 [(1) IRC, Sections R612.2 through R612.4.2, are deleted.]

- 65 [(2) IRC, Chapter 11, is deleted and replaced with Chapter 11 of the 2006 International
- 66 Residential Code and Chapter 4 of the 2006 International Energy Conservation Code.]
- 67 (1) In IRC, Section N1101.8 (R103.2), all words after the words "herein governed." are
- 68 deleted and replaced with the following: "Construction documents include all documentation
- 69 required to be submitted in order to issue a building permit."
- 70 (2) In IRC, Section N1101.14 (R303.3), all wording after the first sentence is deleted.
- 71 (3) In IRC, Table N1102.1.1 (402.1.1) and Table N1102.1.3 (R402.1.3), the rows for
- 72 <u>"climate zone 3", "climate zone 5 and Marine 4", and "climate zone 6" are deleted and replaced</u>

73 and a new footnote j is added as follows:

74				"TAB	LE N11	02.1.1 (R402	2.1.1)				
75		INSU	LATION A	ND FENEST	RATIO	N REQUIRE	EMENTS E	BY COM	PONENT <sup>a</sup>		-
76	<u>CLIMATE</u> <u>ZONE</u>	FENESTRATION	<u>SKYLIGHT <sup>b</sup></u> <u>U-FACTOR</u>	<u>GLAZED</u> FENESTRATION <u>SHGC <sup>b.e</sup></u>	<u>CEILING</u> R-VALUE	<u>WOOD</u> FRAME WALL <u>R-VALUE</u>	<u>MASS</u> <u>WALL</u> R-VALUE <sup>i,j</sup>	<u>FLOOR</u> R-VALUE	BASEMENT ° WALL <u>R-VALUE</u>	<u>SLAB</u> <sup>d</sup> <u>R-VALUE</u> & DEPTH	<u>CRAWL</u> <u>SPACE °</u> <u>WALL</u> <u>R-VALUE</u>
77	<u>3</u>	<u>0.65</u>	<u>0.65</u>	<u>0.40</u>	<u>30</u>	<u>15</u>	<u>5</u>	<u>19</u>	<u>0</u>	<u>0</u>	<u>5/13</u>
78	<u>5 and</u> Marine 4	<u>0.35</u>	<u>0.60</u>	<u>NR</u>	<u>38</u>	$\frac{19 \text{ or } 13 +}{5^{\text{h}}}$	<u>13</u>	<u>30 g</u>	<u>10/13</u>	<u>10, 2 ft</u>	<u>10/13</u>
79	<u>6</u>	<u>0.35</u>	<u>0.60</u>	<u>NR</u>	<u>49</u>	$\frac{19 \text{ or } 13 +}{5^{\text{h}}}$	<u>15</u>	<u>30 g</u>	<u>10/13</u>	<u>10, 4 ft</u>	<u>10/13</u>
<sup>80</sup> j	. Log walls 5-8 when ov AFUE (oil),	complying with erall window gla and all other cor	ICC400 and tizing is .31	with a minimu U-factor or low uirements are n	im averag er, minim net."	e wall thickne um heating ea	ess of 5" or guipment ef	greater sha ficiency is	all be permitt 90 AFUE (g	ed in Zon gas) or 84	<u>es</u>
				TABL	E N110	2.1.3 (R40	02.1. <u>3)</u>				

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81

#### EQUIVALENT U-FACTORS<sup>a</sup>

83	<u>CLIMATE</u> ZONE	FENESTRATION <u>U-FACTOR</u>	<u>SKYLIGHT</u> <u>U-FACTOR</u>	<u>CEILING</u> <u>U-FACTOR</u>	<u>FRAME</u> <u>WALL</u> <u>U-FACTOR</u>	MASS WALL	<u>FLOOR</u> <u>U-FACTOR</u>	<u>BASEMENT</u> <u>WALL</u> <u>U-FACTOR</u>	CRAWL SPACE WALL U-FACTOR
84	<u>3</u>	<u>0.65</u>	<u>0.65</u>	<u>0.035</u>	<u>0.082</u>	<u>0.141</u>	<u>0.047</u>	0.360	<u>0.136</u>
85	<u>5 and</u>	<u>0.35</u>	<u>0.60</u>	<u>0.030</u>	<u>0.060</u>	0.082	<u>0.033</u>	<u>0.059</u>	0.065
	Marine 4								
86	<u>6</u>	<u>0.35</u>	<u>0.60</u>	<u>0.026</u>	<u>0.060</u>	<u>0.060</u>	<u>0.033</u>	<u>0.059</u>	<u>0.065</u>
87	<u>(4)</u> In 1	IRC, Section 1	N1102.2.1	(R402.2.	1), the last	sentence is	deleted.		
88	<u>(5)</u> In 1	IRC, Section I	N1102.2.2	(R402.2.	2), the last	sentence is	deleted.		
89	<u>(6)</u> In .	IRC, Section I	N1102.3.3	<u>(R402.3.</u>	3), the last	sentence is	deleted.		
90	<u>(7)</u> In	IRC, Section I	<u> 1102.3.4</u>	(R402.3.	4), the last	sentence is	deleted.		
91	<u>(8)</u> In .	IRC, Section I	N1102.4.1	<u>(R402.4.</u>	1), in the fi	irst sentenc	e, the wor	<u>rd "and" is</u>	
92	deleted and rep	placed with the	e word "or	<u>r".</u>					
93	<u>(9)</u> In 1	IRC, Section I	<u>N1102.4.1</u>	.1 (R402.	4.1.1), the	last sentend	ce is delet	ed and repla	uced
94	with the follow	ving: "Where a	allowed by	y the build	ling officia	l, the build	er may ce	rtify compli	ance
95	to components	criteria for ite	ems which	n may not	be inspecte	ed during re	egularly so	cheduled	
96	inspections."								
97	<u>(10)</u> In	IRC, Section	N1102.4.	<u>1.2 (R402</u>	2.4.1.2), the	e following	changes a	are made:	
98	a. In the first s	sentence, the v	vords "in Z	Zones 1 ai	nd 2, and 3	air change	s per hour	in Zone 3	
99	through 8" are	deleted.							
100	b. In the third	sentence, the	words "W	here requ	ired by the	building of	fficial," ar	nd the word	
101	"third" are dele	eted.							
102	c. The followi	ng sentence is	inserted a	after the tl	nird senten	ce: "The fo	<u>llowing p</u>	arties shall l	be
103	approved to co	nduct testing:	Parties ce	ertified by	BPI or RE	SNET, or l	icensed co	ontractors w	<u>/ho</u>
104	have complete	<u>d training prov</u>	vided by E	Blower Do	or Test eq	uipment ma	anufacture	ers or other	
105	comparable tra	<u>uining."</u>							
106	<u>(11)</u> In	IRC, Section	N1102.4.	<u>4 (R402.4</u>	4.4), the las	st sentence	is deleted.	<u>-</u>	
107	<u>(12)</u> In	IRC, Section	N1103.2.	<u>2 (R403.2</u>	2.2), the rec	quirements	for duct ti	ightness test	<u>ting</u>
108	are deleted and	l replaced with	n the follo	wing:					
109	<u>"1. Pos</u>	tconstruction	test: Total	leakage s	shall be less	s than or eq	jual to 10	<u>cfm (283</u>	
110	<u>L/min) per 100</u>	) square feet (	9.29 m2) o	of condition	oned floor	space when	tested at	a pressure	

111	differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air
112	handler enclosure. All register boots shall be taped or otherwise sealed during the test.
113	2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per
114	100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of at
115	least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler
116	enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is
117	not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212
118	L/min) per 100 square feet (9.29 m2) of conditioned floor area."
119	(13) In IRC, Section N1103.2.2 (R403.2.2), the exception for duct tightness testing is
120	deleted and replaced with the following: "Exception: The total leakage test is not required for
121	systems with all air handlers and at least 50% of all ducts (measured by length) located entirely
122	within the building thermal envelope."
123	(14) In IRC, Section N1103.2.3 (R403.2.3), the words "or plenums" are deleted.
124	(15) In IRC, Section N1103.4.2 (R403.4.2), the sentences for "3.", "9.", and the last
125	sentence are deleted.
126	(16) In IRC, Section N1103.5 (R403.5), the first sentence is deleted.
127	(17) IRC, Section N1104.1 (R404.1) and the exception are deleted, and N1104.1.1
128	(R404.1.1) becomes N1104.1 (R404.1).
129	(18) In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under
130	the column STANDARD REFERENCE DESIGN:
131	a. In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per hour in
132	Zones 3 through 8" are deleted.
133	b. In the row "Heating systems <sup>f, g</sup> ", the standard reference design is deleted and replaced with
134	the following:
135	"Fuel Type: same as proposed design
136	Efficiencies:
137	Electric: air source heat pump with prevailing federal minimum efficiencies
138	Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies
139	Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies
140	Capacity: sized in accordance with Section N1103.6"
141	c. In the row "Cooling systems <sup>f, h</sup> " the words "As proposed" are deleted and replaced with the

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142	following:
143	"Fuel Type: Electric
144	Efficiency: in accordance with prevailing federal minimum standards"
145	d. In the row "Service water heating <sup>f, g, h, i</sup> ", the words "As proposed" are deleted and replaced
146	with the following:
147	"Fuel Type: same as proposed design
148	Efficiency: in accordance with prevailing federal minimum standards
149	Tank Temperature: 120° F"
150	e. In the row "Thermal distribution systems" the word "none" is deleted and replaced with the
151	following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the
152	heating and cooling system efficiencies."
153	(19) In Table N1105.5.2(2) (R405.5.2(2)), the number "0.80" is inserted under "Forced
154	air systems" for "Distribution system components located in unconditioned space".
155	(20) In IRC, Section M1307.2, the words "In Seismic Design Categories D1 and D2"
156	are deleted.
157	[ <del>(3)</del> ] <u>(21)</u> IRC, Section M1411.6, is deleted.
158	[(4) In IRC, Section M1502.4.4.1, the words "25 feet (7,620 mm)" are deleted and
159	replaced with "35 feet (10,668 mm)".]
160	Section 3. Section 15A-3-701 is amended to read:
161	Part 7. Statewide Amendments to IECC
162	15A-3-701. General provisions.
163	The following is adopted as an amendment to the IECC to be applicable statewide[ <del>, in</del>
164	<del>IECC, Section 504.4,]:</del>
165	(1) In IECC, Section C202, the definition for "CONDITIONED SPACE" is deleted and
166	replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed
167	within the building thermal envelope that is directly heated or cooled, or indirectly heated or
168	cooled by any of the following means:
169	1. Openings directly into an adjacent conditioned space.
170	2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
171	3. Un-insulated duct, piping or other heat or cooling source within the space."

172 (2) In IECC, Section C404.4, a new exception is added as follows: "Exception: Heat

173	traps, other the	han the arra	ngement	of piping a	nd fittin	gs, shall b	e prohib	ited un	less a me	ans of	
174	controlling th	nermal expa	nsion ca	n be ensure	d as requ	ired in th	e IPC Se	ction 6	07.3."		
175	<u>(3) I</u>	n IECC, Sec	ction R10	)3.2, all wo	rds after	the word	s "herein	govern	ned." are	deleted	
176	and replaced	with the fol	llowing:	"Constructi	ion docu	ments inc	lude all c	locume	entation r	equired	<u>l</u>
177	to be submitt	ed in order	to issue	<u>a building p</u>	ermit."						
178	<u>(4)</u> II	n IECC, Sec	ction R20	02, the defin	nition for	COND	ITIONEI	) SPAC	CE" is del	leted ar	<u>ıd</u>
179	replaced with	the follow	ing: "CC	NDITION	ED SPA	CE. An a	rea, roon	n or spa	ace enclo	sed	
180	within the bu	ilding thern	nal enve	lope that is	directly	heated or	cooled, c	or indir	ectly hear	ted or	
181	cooled by an	y of the foll	<u>owing m</u>	eans:							
182	1. Openings	directly inte	o an adja	cent condit	ioned sp	ace.					
183	2. An un-ins	ulated floor	<u>, ceiling</u>	or wall adj	acent to	a conditic	ned spac	<u>e.</u>			
184	<u>3. Un-insula</u>	ted duct, pi	ping or o	ther heat or	cooling	source w	ithin the	space.'			
185	<u>(5)</u> In	n IECC, Sec	tion R30	)3.3, all wo	rding aft	er the firs	t sentenc	e is del	leted.		
186	<u>(6)</u> Iı	n IECC, Tał	ole R402	.1.1 and Ta	ble R402	2.1.3, the	rows for	"clima	te zone 3	<u>",</u>	
187	"climate zone	e 5 and Mar	rine 4, an	d climate z	one 6" a	re deleted	and repl	aced ar	nd a new	footnot	<u>:e</u>
188	j is added as	<u>follows:</u>									
189				<u>"</u> T	ABLE I	R402.1.1					
190	IN	ISULATIO	N AND	FENESTRA	ATION I	REQUIRE	EMENTS	BY C	OMPON	ENT <sup>a</sup>	
191						WOOD					CRAWL
171	CLIMATE	FENESTRATION	SKYLIGHT <sup>b</sup>	<u>GLAZED</u> FENESTRATION	CEILING	<u>FRAME</u> WALL	MASS WALL	FLOOR	BASEMENT ° WALL	<u>SLAB</u> <sup>d</sup> R-VALUE	SPACE <sup>c</sup> WALL
	ZONE	U-FACTOR <sup>b</sup>	<u>U-FACTOR</u>	<u>SHGC b,e</u>	R-VALUE	R-VALUE	R-VALUE Lj	R-VALUE	R-VALUE	& DEPTH	R-VALUE
192	<u>3</u>	<u>0.65</u>	<u>0.65</u>	<u>0.40</u>	<u>30</u>	<u>15</u>	<u>5</u>	<u>19</u>	<u>0</u>	<u>0</u>	<u>5/13</u>
193	<u>5 and</u>	<u>0.35</u>	<u>0.60</u>	NR	<u>38</u>	<u>19 or 13 +</u>	<u>13</u>	<u>30 g</u>	<u>10/13</u>	<u>10, 2 ft</u>	<u>10/13</u>
	Marine 4					<u>5<sup>h</sup></u>					
194	<u>6</u>	<u>0.35</u>	<u>0.60</u>	NR	<u>49</u>	$\frac{19 \text{ or } 13 +}{5^{\text{h}}}$	<u>15</u>	<u>30 g</u>	<u>10/13</u>	<u>10, 4 ft</u>	<u>10/13</u>
105	i Log walls co		C400 and	with a minimu	m average y	vall thicknes	s of 5" or g	eater sha	ll be permitt	ed in Zor	nes
195	<u>5-8 when overa</u>	ll window glazi	ng is .31 U	-factor or lower	r, minimum	heating equ	ipment effic	viency is 9	90 AFUE (g	as) or 84	
	AFUE (oil), and	d all other com	oonent requ	irements are m	et.						
196			TABL	E R402.1.3	BEQUIV	ALENT	U-FACT	<b>ORS</b> <sup>a</sup>			
197						FRAME			BASE	MENT	CRAWL
	<u>CLIMATE</u> ZONE	FENESTE U-FAC	RATION S	KYLIGHT C -FACTOR U-	EILING FACTOR	<u>WALL</u> U-FACTOR	MASS WALL <u>U-FACTOR</u> <sup>b</sup>	<u>FLOC</u> <u>U-FA</u> C	DR <u>WA</u> TOR <u>U-FA</u>	ALL SH CTOR U	<u>'ACE WAL</u> U-FACTOR

198	<u>3</u>	0.65	0.65	0.035	<u>0.082</u>	0.141	0.047	<u>0.360</u>	0.136
199	5 and Marine 4	0.35	0.60	0.030	<u>0.060</u>	0.082	0.033	<u>0.059</u>	0.065
200	<u>6</u>	0.35	<u>0.60</u>	<u>0.026</u>	<u>0.060</u>	<u>0.060</u>	0.033	<u>0.059</u>	0.065
201	(7) In IEC	C. Section I	R402.2.1. tł	ne last sent	ence is de	eted.			
202	(8) In IEC	C, Section I	R402.2.2, th	e last sent	ence is del	leted.			
203	(9) In IEC	C, Section I	R402.3.3, th	e last sent	ence is del	leted.			
204	<u>(10)</u> In IEO	CC, Section	R402.3.4,	the last ser	ntence is d	eleted.			
205	<u>(11)</u> In IEO	CC, Section	R402.4.1,	in the first	sentence,	the word '	'and" is de	leted and	
206	replaced with the	word "or".							
207	<u>(12)</u> In IEO	CC, Section	R402.4.1.1	, the last s	entence is	deleted ar	nd replaced	d with the	
208	following: "Where	allowed by	the buildin	ng official,	the builde	r may cert	ify compli	iance to	
209	components criteri	a for items	which may	not be ins	pected dur	ing regula	rly schedu	led	
210	inspections."								
211	<u>(13)</u> In IEO	CC, Section	R402.4.1.2	the follo	wing chan	ges are ma	nde:		
212	a. In the first sente	ence, the wo	ords "in Zor	nes 1 and 2	and 3 air	changes p	ber hour in	Zone 3	
213	through 8" are dele	eted.							
214	b. In the third sent	tence, the w	ords "When	<u>e required</u>	by the bu	ilding offi	cial," and	the word	
215	"third" are deleted	<u>.</u>							
216	c. The following s	sentence is i	nserted afte	er the third	sentence:	"The follo	wing part	ies shall be	2
217	approved to condu	ct testing: F	arties certit	fied by BP	I or RESN	ET, or lice	ensed cont	ractors wh	<u>10</u>
218	have completed tra	aining provi	ded by Blov	wer Door 7	<u>Fest equip</u>	ment man	ufacturers	or other	
219	comparable trainin	<u>ıg."</u>							
220	<u>(14)</u> In IEC	CC, Section	R402.4.4,	the last ser	ntence is d	eleted.			
221	<u>(15)</u> In IEO	CC, Section	R403.2.2,	the require	ments for	duct tight	ness testin	g are delet	<u>ed</u>
222	and replaced with	the followin	<u>ıg:</u>						
223	"1. Postco	nstruction to	est: Total le	akage shal	ll be less tl	nan or equ	al to 10 cf	<u>m (283</u>	
224	L/min) per 100 squ	uare feet (9.	29 m2) of c	onditioned	l floor spa	ce when te	ested at a p	oressure_	
225	differential of 0.1	inches w.g.	(25 Pa) act	coss the en	tire system	n, includin	g the man	ufacturer's	air
226	handler enclosure.	All registe	r boots shal	l be taped	or otherw:	ise sealed	during the	test.	
227	2. Rough-	in test: Tota	<u>l leakage sł</u>	all be less	than or ec	ual to 10	<u>cfm (283 l</u>	<u>[/min) per</u>	
228	100 square feet (9.	29 m2) of c	onditioned	floor area	when teste	ed at a pres	ssure diffe	rential of a	<u> 1t</u>

229	least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler
230	enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is
231	not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212
232	L/min) per 100 square feet (9.29 m2) of conditioned floor area."
233	(16) In IECC, Section R403.2.2, the exception for total leakage testing is deleted and
234	replaced with the following: "Exception: The total leakage test is not required for systems with
235	all air handlers and at least 50% of all ducts (measured by length) located entirely within the
236	building thermal envelope."
237	(17) In IECC, Section R403.2.3, the words "or plenums" are deleted.
238	(18) In IECC, Section R403.4.2, the sentences for "3." and "9." and the last sentence
239	are deleted.
240	(19) In IECC, Section R403.5, the first sentence is deleted.
241	(20) IECC, Section R404.1 and the exception are deleted, and R404.1.1 becomes
242	<u>R404.1.</u>
243	(21) In IECC, Table R405.5.2(1), the following changes are made under the column
244	STANDARD REFERENCE DESIGN:
245	a. In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per hour in
246	Zones 3 through 8" are deleted.
247	b. In the row "Heating systems <sup>f, g</sup> ", the standard reference design is deleted and replaced with
248	the following:
249	"Fuel Type: same as proposed design
250	Efficiencies:
251	Electric: air source heat pump with prevailing federal minimum efficiencies
252	Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies
253	Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies
254	Capacity: sized in accordance with Section N1103.6"
255	c. In the row "Cooling systems <sup>f, h</sup> " the words "As proposed" are deleted and replaced with the
256	following:
257	"Fuel Type: Electric
258	Efficiency: in accordance with prevailing federal minimum standards"
259	d. In the row "Service water heating <sup>f, g, h, i</sup> ", the words "As proposed" are deleted and replaced

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260	with the following:
261	"Fuel Type: same as proposed design
262	Efficiency: in accordance with prevailing federal minimum standards
263	Tank Temperature: 120° F"
264	e. In the row "Thermal distribution systems" the word "none" is deleted and replaced with the
265	following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the
266	heating and cooling system efficiencies."
267	(22) In IECC, Table R405.5.2(2), the number "0.80" is inserted under "Forced air
268	systems" for "Distribution system components located in unconditioned space".
269	Section 4. Study on improving residential energy efficiency.
270	(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform
270 271	(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform Building Code Commission, in consultation with the Mechanical Advisory Committee of the
270 271 272	(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform Building Code Commission, in consultation with the Mechanical Advisory Committee of the Uniform Building Code Commission, shall study and make recommendations on ways to
270 271 272 273	(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform Building Code Commission, in consultation with the Mechanical Advisory Committee of the Uniform Building Code Commission, shall study and make recommendations on ways to increase residential energy efficiency by 5% by January 1, 2015.
<ol> <li>270</li> <li>271</li> <li>272</li> <li>273</li> <li>274</li> </ol>	<ul> <li>(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform</li> <li>Building Code Commission, in consultation with the Mechanical Advisory Committee of the</li> <li>Uniform Building Code Commission, shall study and make recommendations on ways to</li> <li>increase residential energy efficiency by 5% by January 1, 2015.</li> <li>(2) The Architectural Advisory Committee shall present its recommendations to the</li> </ul>
<ul> <li>270</li> <li>271</li> <li>272</li> <li>273</li> <li>274</li> <li>275</li> </ul>	<ul> <li>(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform</li> <li>Building Code Commission, in consultation with the Mechanical Advisory Committee of the</li> <li>Uniform Building Code Commission, shall study and make recommendations on ways to</li> <li>increase residential energy efficiency by 5% by January 1, 2015.</li> <li>(2) The Architectural Advisory Committee shall present its recommendations to the</li> <li>Business and Labor Interim Committee no later than the October 2013 interim meeting.</li> </ul>
<ul> <li>270</li> <li>271</li> <li>272</li> <li>273</li> <li>274</li> <li>275</li> <li>276</li> </ul>	<ul> <li>(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform</li> <li>Building Code Commission, in consultation with the Mechanical Advisory Committee of the</li> <li>Uniform Building Code Commission, shall study and make recommendations on ways to</li> <li>increase residential energy efficiency by 5% by January 1, 2015.</li> <li>(2) The Architectural Advisory Committee shall present its recommendations to the</li> <li>Business and Labor Interim Committee no later than the October 2013 interim meeting.</li> <li>Section 5. Effective date.</li> </ul>

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Office of Legislative Research and General Counsel