	ENERGY CONSERVATION CODE AMENDMENTS
	2013 GENERAL SESSION
	STATE OF UTAH
	Chief Sponsor: Brad R. Wilson
	Senate Sponsor: Curtis S. Bramble
LONG T	ITLE
General	Description:
T	his bill amends the State Construction Code.
Highligh	ted Provisions:
T	his bill:
•	adopts the 2012 edition of the International Energy Conservation Code;
•	modifies certain provisions of the International Energy Conservation Code; and
•	modifies certain energy provisions of the International Residential Code.
Money A	ppropriated in this Bill:
Ν	one
Other Sp	ecial Clauses:
T	his bill Ŝ→ [takes effect on July 1, 2013] provides a contingent effective date ←Ŝ
Utah Co	de Sections Affected:
AMEND	S:
15	5A-2-103, as last amended by Laws of Utah 2012, Chapter 76
15	5A-3-203, as enacted by Laws of Utah 2011, Chapter 14
15	5A-3-701, as enacted by Laws of Utah 2011, Chapter 14
Uncodifi	ed Material Affected:
ENACTS	UNCODIFIED MATERIAL

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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 $\hat{S} \rightarrow [(402.1.1)] (R402.1.1) \leftarrow \hat{S}$
- 71a <u>and Table N1102.1.3(R402.1.3)</u>, 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	⁴ <u>"TABLE N1102.1.1 (R402.1.1)</u>										
75		<u>INSUI</u>	LATION A	ND FENEST	RATIO	N REQUIRE	EMENTS E	BY COM	PONENT ^a		
76	<u>CLIMATE</u> <u>ZONE</u>	FENESTRATION U-FACTOR ^b	<u>SKYLIGHT ^b</u> <u>U-FACTOR</u>	<u>GLAZED</u> FENESTRATION <u>SHGC ^{b.c}</u>	<u>CEILING</u> R-VALUE	<u>WOOD</u> FRAME WALL <u>R-VALUE</u>	<u>MASS</u> <u>WALL</u> <u>R-VALUE ^{i,j}</u>	<u>FLOOR</u> <u>R-VALUE</u>	<u>BASEMENT °</u> <u>WALL</u> <u>R-VALUE</u>	<u>SLAB</u> ^d <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>
-	⁸⁰ j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."										

81

TABLE N1102.1.3 (R402.1.3)

EQUIVALENT U-FACTORS^a

82

83	<u>CLIMATE</u> <u>ZONE</u>	FENESTRATION <u>U-FACTOR</u>	SKYLIGHT U-FACTOR	CEILING U-FACTOR	<u>FRAME</u> <u>WALL</u> <u>U-FACTOR</u>	MASS WALL	<u>FLOOR</u> U-FACTOR	<u>BASEMENT</u> <u>WALL</u> <u>U-FACTOR</u>	<u>CRAWL</u> <u>SPACE</u> <u>WALL</u> <u>U-FACTOR</u>
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>	<u>0.360</u>	<u>0.136</u>
85	<u>5 and</u>	0.35	<u>0.60</u>	<u>0.030</u>	<u>0.060</u>	0.082	<u>0.033</u>	0.059	0.065
	Marine 4								
86	6	<u>0.35</u>	<u>0.60</u>	<u>0.026</u>	<u>0.060</u>	0.060	<u>0.033</u>	<u>0.059</u>	<u>0.065</u>
87	(4) In IRC, Section N1102.2.1 (R402.2.1), the last sentence is deleted.								
88	<u>(5)</u> In I	RC, Section I	N1102.2.2	(R402.2.2	2), the last	sentence is	deleted.		
89	<u>(6)</u> In l	RC, Section I	<u>N1102.3.3</u>	(R402.3.	3), the last	sentence is	s deleted.		
90	<u>(7)</u> In I	RC, Section M	<u>N1102.3.4</u>	<u>(R402.3.</u>	4), the last	sentence is	deleted.		
91	<u>(8)</u> In I	RC, Section I	<u>N1102.4.1</u>	<u>(R402.4.</u>	1), in the fi	irst sentenc	e, the wor	<u>d "and" is</u>	
92	deleted and replaced with the word "or".								
93	(9) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and replaced								
94	with the following: "Where allowed by the building official, the builder may certify compliance								
95	to components criteria for items which may not be inspected during regularly scheduled								
96	inspections."								
97	(10) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:								
98	a. In the first s		vords "in Z	Zones 1 ar	nd 2, and 3	air change	s per hour	in Zone 3	
99	through 8" are								
100	b. In the third		words "W	here requi	ired by the	building of	fficial," ar	nd the word	
101	"third" are deleted.								
102	c. The following sentence is inserted after the third sentence: "The following parties shall be								
103	approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who								
104	have completed training provided by Blower Door Test equipment manufacturers or other								
105	<u>comparable training."</u>								
106	 (11) In IRC, Section N1102.4.4 (R402.4.4), the last sentence is deleted. (12) In IRC, Section N1103.2.2 (R403.2.2), the requirements for \$→ [duct tightness-] total 								
107 107a			<u>111103.2</u> .	<u>2 (</u> K4U3.2	2.∠), me rec	<u>quirements</u>	<u>101</u> 34 [i	uuct tighthe	<u>55-j lotal</u>
107a 108	<u>leakage</u> \leftarrow \hat{S} <u>testing</u> are deleted and replaced with the following:								
108		tconstruction		•	hall he lea	s than or or	uual to 10	cfm (283	
109	L/min) per 100			U			•		
110	<u>L'initi per 100</u>	Square root ()	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		<u> </u>		<u>i tostoù di</u>		

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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 $\hat{S} \rightarrow [\frac{duct \ tightness}]$ total
119a	<u>leakage</u> ←Ŝ <u>testing is</u>
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 ^{f, g} ", 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 ^{f, h} " 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 ^{f, g, h, i} ", 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.
156a	Ŝ→ (21)The RESCheck Software adopted by the United States Department of Energy and
156b	modified to meet the requirements of this section shall be used to verify compliance with this
156c	section. The software shall address the Total UA alternative approach and account for
156d	Equipment Efficiency Trade-offs when applicable per the standard reference design as
156e	<u>amended.</u> ←Ŝ
157	$[(3)]$ $\hat{\mathbf{S}} \rightarrow [(21)]$ $(22) \leftarrow \hat{\mathbf{S}}$ 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[, in
164	IECC, Section 504.4,] :
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	

173 traps, other than the arrangement of piping and fittings, shall be prohibited unless a means of 174 controlling thermal expansion can be ensured as required in the IPC Section 607.3." (3) In IECC, Section R103.2, all words after the words "herein governed." are deleted 175 176 and replaced with the following: "Construction documents include all documentation required to be submitted in order to issue a building permit." 177 (4) In IECC, Section R202, the definition for "CONDITIONED SPACE" is deleted and 178 179 replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed 180 within the building thermal envelope that is directly heated or cooled, or indirectly heated or 181 cooled by any of the following means: 182 1. Openings directly into an adjacent conditioned space. 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space. 183 3. Un-insulated duct, piping or other heat or cooling source within the space." 184 185 (5) In IECC, Section R303.3, all wording after the first sentence is deleted. (6) In IECC, Table R402.1.1 and Table R402.1.3, the rows for "climate zone 3", 186 "climate zone 5 and Marine 4, and climate zone 6" are deleted and replaced and a new footnote 187 188 j is added as follows: "TABLE R402.1.1 189 190 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a WOOD CRAWL 191 GLAZED FRAME BASEMENT ' SPACE ° MASS SLAB^d FENESTRATION SKYLIGHT ^b FENESTRATION CLIMATE CEILING WALL WALL FLOOR WALL R-VALUE WALL U-FACTOR ^b ZONE U-FACTOR SHGC b,e R-VALUE R-VALUE R-VALUE I R-VALUE R-VALUE & DEPTH R-VALUE 3 0.65 0.65 0.40 30 15 <u>5</u> <u>19</u> 0 0 5/13 192 19 or 13 + 30^g 10/13 10, 2 ft 10/13 193 <u>5 and</u> 0.35 0.60 <u>NR</u> <u>38</u> <u>13</u> Marine 4 <u>5</u>^h 19 or 13 + 10/13 10, 4 ft 10/13 <u>6</u> 0.35 0.60 NR 15 30^g 194 <u>49</u> 5^h j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 195 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met. 196 TABLE R402.1.3 EQUIVALENT U-FACTORS^a BASEMENT FRAME CRAWL 197 CLIMATE FENESTRATION SKYLIGHT CEILING WALL MASS WALL FLOOR WALL SPACE WALL ZONE **U-FACTOR** U-FACTOR U-FACTOR U-FACTOR U-FACTOR ^b U-FACTOR U-FACTOR U-FACTOR

198	<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>	<u>0.360</u>	<u>0.136</u>
199	5 and Marine 4	<u>0.35</u>	<u>0.60</u>	<u>0.030</u>	<u>0.060</u>	0.082	0.033	<u>0.059</u>	<u>0.065</u>
200	<u>6</u>	<u>0.35</u>	0.60	<u>0.026</u>	<u>0.060</u>	<u>0.060</u>	0.033	<u>0.059</u>	<u>0.065</u>
201	<u>(7)</u> In IEC	C, Section I	R402.2.1, tł	ne last sent	ence is de	leted.			
202	<u>(8)</u> In IEC	C, Section I	R402.2.2, th	ne last sent	ence is de	leted.			
203	<u>(9)</u> In IEC	C, Section I	R402.3.3, th	ne last sent	ence is de	leted.			
204	<u>(10)</u> In IE	CC, Section	R402.3.4,	the last ser	ntence is d	eleted.			
205	<u>(11)</u> In IE	CC, Section	R402.4.1,	in the first	sentence,	the word '	'and" is de	eleted and	
206	replaced with the	word "or".							
207	<u>(12)</u> In IE	CC, Section	R402.4.1.1	, the last s	sentence is	deleted ar	nd replace	d with the	
208	following: "Where	e allowed by	the buildin	n <u>g official</u> ,	the builde	er may cert	ify compl	iance to	
209	components criter	ia for items	which may	not be ins	pected dur	ing regula	rly schedu	led	
210	inspections."								
211	(13) In IECC, Section R402.4.1.2, the following changes are made:								
212	a. In the first sentence, the words "in Zones 1 and 2, and 3 air changes per hour in Zone 3								
213	through 8" are deleted.								
214	b. In the third sen		ords "When	re required	by the bu	ilding offi	cial," and	the word	
215	"third" are deleted	_							
216	c. The following s						• •		
217	approved to condu	-		•					<u>10</u>
218	have completed tra		ded by Blov	wer Door	<u>l'est equip</u>	ment man	ufacturers	or other	
219	comparable trainir		D 400 4 4	.1 1 .		1 4 1			
220 221	 (14) In IECC, Section R402.4.4, the last sentence is deleted. (15) In IECC, Section R403.2.2, the requirements for duct tightness testing are deleted 						ad		
221				<u>une require</u>	inents for		ness testin	g are delet	eu
222	and replaced with	instruction to	-	alzaga sha	ll balans t	2012 OF 2011	al to 10 of	m (282	
223 224	<u>L/min) per 100 squ</u>			•		•			
224	differential of 0.1	·	·		-		-		air
225	handler enclosure.	-			-		-		<u>u11</u>
220		in test: Tota		-			e		
228			-			•			
228	100 square feet (9)	<u>.29 m2) of c</u>	onditioned	tloor area	when teste	ed at a pre	ssure diffe	rential of a	<u>at</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 ^{f, g} ", 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 ^{f, h} " 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 ^{f, g, h, i} ", 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".
268a	Ŝ→ (23)The RESCheck Software adopted by the United States Department of Energy
268b	and modified to meet the requirements of this section shall be used to verify compliance with
268c	this section. The software shall address the Total UA alternative approach and account for
268d	<u>Equipment Efficiency Trade-offs when applicable per the standard reference design as</u>
268e	<u>amended.</u> ←Ŝ
269	Section 4. Study on improving residential energy efficiency.
270	(1) During the 2013 interim, the Architectural Advisory Committee of the Uniform
271	Building Code Commission, in consultation with the Mechanical Advisory Committee of the
272	<u>Uniform Building Code Commission, shall study and make recommendations</u> $\hat{H} \rightarrow [$ <u>on ways to</u>
273	increase residential energy efficiency by 5% by January 1, 2015] regarding increasing residential
273a	<u>energy performance</u> ←Ĥ <u>.</u>
274	(2) The Architectural Advisory Committee shall present its recommendations to the
275	Business and Labor Interim Committee no later than the October 2013 interim meeting.
276	Section 5. Ŝ→ <u>Contingent</u> ←Ŝ Ŝ→ [Effective] <u>effective</u> ←Ŝ date.
277	$\hat{S} \rightarrow [\frac{\text{This bill takes effect on July 1, 2013.}}{\text{This bill takes effect on the first day of the}}$
	month following the month in which the Uniform Building Code Commission certifies in
	writing to the Business and Labor Interim Committee that the United States Department of
	Energy has adopted a version of the RESCheck software that can be used to verify compliance
	<u>to the requirements of this bill.</u> (Ŝ

Legislative Review Note as of 2-7-13 1:08 PM

Office of Legislative Research and General Counsel

- 10 - Senate Committee Amendments 3-5-2013 lp/crg House Committee Amendments 2-21-2013 je/crg