



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

Ordinance

Proposed No. 2021-0346.2

Sponsors Dembowski

1 AN ORDINANCE relating to building and construction
2 standards; amending Ordinance 14111, Section 3, as
3 amended, and K.C.C. 16.02.100, Ordinance 14111, Section
4 4, as amended, and K.C.C. 16.02.110, Ordinance 14914,
5 Section 8, and K.C.C. 16.02.140, Ordinance 14914, Section
6 9, as amended, and K.C.C. 16.02.150, Ordinance 15802,
7 Section 5, as amended, and K.C.C. 16.02.152, Ordinance
8 14914, Section 10, and K.C.C. 16.02.160, Ordinance
9 12560, Section 55, as amended, and K.C.C. 16.02.170,
10 Ordinance 14914, Section 16, as amended, and K.C.C.
11 16.02.200, Ordinance 12560, Section 10, as amended, and
12 K.C.C. 16.02.240, Ordinance 14914, Section 23, as
13 amended, and K.C.C. 16.02.250, Ordinance 11622, Section
14 3, as amended, and K.C.C. 16.02.260, Ordinance 12560,
15 Section 18, as amended, and K.C.C. 16.02.290, Ordinance
16 12560, Section 20, as amended, and K.C.C. 16.02.340,
17 Ordinance 12560, Section 25, as amended, and K.C.C.
18 16.02.400, Ordinance 12560, Section 26, as amended, and
19 K.C.C. 16.02.410, Ordinance 14914, Section 55, as
20 amended, and K.C.C. 16.02.420, Ordinance 14914, Section

21 57, as amended, and K.C.C. 16.02.440, Ordinance 12560,
22 Section 30, as amended, and K.C.C. 16.02.470, Ordinance
23 14914, Section 78, as amended, and K.C.C. 16.02.550,
24 Ordinance 14914, Section 81, as amended, and K.C.C.
25 16.02.570, Ordinance 14914, Section 89, and K.C.C.
26 16.03.010, Ordinance 14914, Section 90, as amended, and
27 K.C.C. 16.03.020, Ordinance 3647, Section 3, as amended,
28 and K.C.C. 16.03.040, Ordinance 11923, Section 1, as
29 amended, and K.C.C. 16.03.060, Ordinance 12560, Section
30 43, as amended, and K.C.C. 16.04.250, Ordinance 14914,
31 Section 133, as amended, and K.C.C. 16.04.260, Ordinance
32 12560, Section 44, as amended, and K.C.C. 16.04.270,
33 Ordinance 12560, Section 45, as amended, and K.C.C.
34 16.04.290, Ordinance 14914, Section 141, and K.C.C.
35 16.04.300, Ordinance 12560, Section 47, as amended, and
36 K.C.C. 16.04.310, Ordinance 14111, Section 55, as
37 amended, and K.C.C. 16.04.330, Ordinance 15802, Section
38 23, as amended, and K.C.C. 16.04.344, Ordinance 15802,
39 Section 24, as amended, and K.C.C. 16.04.346, Ordinance
40 15802, Section 25, as amended, and K.C.C. 16.04.348,
41 Ordinance 14914, Section 155, as amended, and K.C.C.
42 16.04.360, Ordinance 14914, Section 156, as amended, and
43 K.C.C. 16.04.370, Ordinance 14914, Section 157, as

44 amended, and K.C.C. 16.04.380, Ordinance 14914, Section
45 158, as amended, and K.C.C. 16.04.390, Ordinance 14914,
46 Section 159 and K.C.C. 16.04.400, Ordinance 14914,
47 Section 163, and K.C.C. 16.04.430 Ordinance 14914,
48 Section 164 as amended, and K.C.C. 16.04.440, Ordinance
49 14914, Section 165, and K.C.C. 16.04.450, Ordinance
50 14914, Section 168, and K.C.C. 16.04.480, Ordinance
51 12560, Section 54, as amended and K.C.C. 16.04.490,
52 Ordinance 12560, Section 67, as amended, and K.C.C
53 16.04.550, Ordinance 12560, Section 68, as amended, and
54 K.C.C. 16.04.560, Ordinance 12560, Section 74, as
55 amended, and K.C.C. 16.04.620, Ordinance 12560, Section
56 89, as amended, and K.C.C. 16.04.770, Ordinance 12560,
57 Section 97, as amended, and K.C.C. 16.04.850, Ordinance
58 12380, Section 1, and K.C.C. 16.04.930, Ordinance 12380,
59 Section 2, and K.C.C. 16.04.940, Ordinance 12380, Section
60 3, as amended, and K.C.C. 16.04.950, Ordinance 12380,
61 Section 4, as amended, and K.C.C. 16.04.960, Ordinance
62 12380, Section 5, as amended, and K.C.C. 16.04.970,
63 Ordinance 7853, Section 1, as amended, and K.C.C.
64 16.04.980, Ordinance 14914, Section 272, as amended, and
65 K.C.C. 16.05.040, Ordinance 15802, Section 78, and
66 K.C.C. 16.05.065, Ordinance 14914, Section 275, as

67 amended, and K.C.C. 16.05.070, Ordinance 14914, Section
68 276, as amended, and K.C.C. 16.05.080 Ordinance 12560,
69 Section 74, as amended, and K.C.C. 16.05.130, Ordinance
70 8766, Section 6, as amended, and K.C.C. 16.08.050,
71 Ordinance 12560, Section 110, as amended, and K.C.C.
72 16.14.110, Ordinance 14914, Section 359, and K.C.C.
73 16.14.200, Ordinance 14914, Section 367, and K.C.C.
74 16.14.250, Ordinance 12560, Section 124, as amended, and
75 K.C.C. 16.14.410, Ordinance 12560, Section 121, as
76 amended, and K.C.C. 16.14.430, Ordinance 14111, Section
77 141, and K.C.C. 16.14.460, Ordinance 14914, Section 407,
78 and K.C.C. 16.14.480, Ordinance 14914, Section 408, and
79 K.C.C. 16.14.490, Ordinance 6746, Section 5, as amended,
80 and K.C.C. 16.32.030, Ordinance 6746, Section 10, as
81 amended, and K.C.C. 16.32.080, Ordinance 15802, Section
82 122, and K.C.C. 16.32.195, Ordinance 15802, Section 123,
83 and K.C.C. 16.32.205, Ordinance 15802, Section 124, as
84 amended, and K.C.C. 16.32.215, Ordinance 15802, Section
85 126, and K.C.C. 16.32.235, Ordinance 15802, Section 128,
86 and K.C.C. 16.32.255, Ordinance 15802, Section 130, and
87 K.C.C. 16.32.275, Ordinance 15802, Section 131, as
88 amended, and K.C.C. 16.32.285, Ordinance 15802, Section
89 132, and K.C.C. 16.32.295, Ordinance 15802, Section 133,

90 and K.C.C. 16.32.306, Ordinance 15802, Section 137, and
91 K.C.C. 16.32.345, Ordinance 15802, Section 138, and
92 K.C.C. 16.32.355, Ordinance 2097, Section 1, as amended,
93 and K.C.C. 17.04.010, Ordinance 12560, Section 148, as
94 amended, and K.C.C. 17.04.200, Ordinance 2097 (part), as
95 amended, and K.C.C. 17.04.210, Ordinance 12560, Section
96 154, as amended, and K.C.C. 17.04.230, Ordinance 17837,
97 Section 75, and K.C.C. 17.04.295, Ordinance 14915,
98 Section 25, and K.C.C. 17.04.310, Ordinance 14915,
99 Section 26, and K.C.C. 17.04.320, Ordinance 14915,
100 Section 27, and K.C.C. 17.04.330, Ordinance 12560,
101 Section 165, as amended, and K.C.C. 17.04.380, Ordinance
102 7980, Section 1, as amended, and K.C.C. 17.04.420,
103 Ordinance 14915, Section 56, and K.C.C. 17.04.450,
104 Ordinance 12560, Section 171, as amended, and K.C.C.
105 17.04.520, Ordinance 14111, Section 215, as amended, and
106 K.C.C. 17.04.540, Ordinance 12560, Section 174, as
107 amended, and K.C.C. 17.04.560, Ordinance 14111, Section
108 211, and K.C.C. 17.04.590, Ordinance 5828, Section 3, and
109 K.C.C. 17.08.020, Ordinance 5828, Section 4, as amended,
110 and K.C.C. 17.08.030, Ordinance 19276, Section 9, and
111 K.C.C. 17.11.060, Ordinance 12196, Section 11, as
112 amended, and K.C.C. 20.20.040, Ordinance 4461, Section

113 2, as amended, and K.C.C. 20.22.040, Ordinance 4461,
114 Section 2, as amended, and K.C.C. 20.22.040, Ordinance
115 13129, Section 6, and K.C.C. 21A.27.060, Ordinance
116 10870, Section 523, as amended, and K.C.C. 21A.28.130,
117 Ordinance 13332, Section 16, as amended, and K.C.C.
118 27.10.010 and Ordinance 13332, Section 39, as amended,
119 and K.C.C. 27.10.310, adding new sections to K.C.C.
120 chapter 16.02, adding new sections to K.C.C. chapter
121 16.03, adding a new section to K.C.C. chapter 16.14,
122 adding new sections to K.C.C. chapter 16.32, adding new
123 sections to K.C.C. chapter 17.04, adding a new chapter to
124 K.C.C. Title 16 and repealing Ordinance 10608, Section 3,
125 as amended, and K.C.C. 16.02.130, Ordinance 14914,
126 Section 13, as amended, and K.C.C. 16.02.180, Ordinance
127 12560, Section 14, as amended, and K.C.C. 16.02.380,
128 Ordinance 12560, Section 9, as amended, and K.C.C.
129 16.02.560, Ordinance 17837, Section 40, and K.C.C.
130 16.03.165, Ordinance 14914, Section 114, and K.C.C.
131 16.03.220, Ordinance 15802, Section 21, and K.C.C.
132 16.04.305, Ordinance 14914, Section 144, as amended, and
133 K.C.C. 16.04.320, Ordinance 14914, Section 151, as
134 amended, and K.C.C. 16.04.340, Ordinance 15802, Section
135 23, and K.C.C. 16.04.342, Ordinance 15802, Section 31, as

136 amended, and K.C.C. 16.04.455, Ordinance 14914, Section
137 167, as amended, and K.C.C. 16.04.470, Ordinance 15802,
138 Section 33, as amended, and K.C.C. 16.04.472, Ordinance
139 15802, Section 34 and K.C.C. 16.04.475, Ordinance 15802,
140 Section 35 and K.C.C. 16.04.478, Ordinance 12560,
141 Section 56, as amended, and K.C.C. 16.04.500, Ordinance
142 14914, Section 177, and K.C.C. 16.04.510, Ordinance
143 15802, Section 36, and K.C.C. 16.04.515, Ordinance
144 14914, Section 178, as amended, and K.C.C. 16.04.520,
145 Ordinance 14914, Section 179, and K.C.C. 16.04.530,
146 Ordinance 14914, Section 185, and K.C.C. 16.04.540,
147 Ordinance 15802, Section 38, and K.C.C. 16.04.545,
148 Ordinance 12560, Section 71, as amended, and K.C.C.
149 16.04.590, Ordinance 12560, Section 76, as amended, and
150 K.C.C. 16.04.640, Ordinance 12560, Section 77, as
151 amended, and K.C.C. 16.04.650, Ordinance 12560, Section
152 78, as amended, and K.C.C. 16.04.660, Ordinance 12560,
153 Section 79, as amended, and K.C.C. 16.04.670, Ordinance
154 12560, Section 80, as amended, and K.C.C. 16.04.680,
155 Ordinance 12560, Section 81, as amended, and K.C.C.
156 16.04.690, Ordinance 12560, Section 82, as amended, and
157 K.C.C. 16.04.700, Ordinance 12560, Section 99, as
158 amended, and K.C.C. 16.04.870, Ordinance 11622, Section

159 2, as amended, and K.C.C. 16.04.880, Ordinance 3647,
160 Section 8, and K.C.C. 16.04.910, Ordinance 14914, Section
161 269, as amended, and K.C.C. 16.05.010, Ordinance 14914,
162 Section 270, and K.C.C. 16.05.020, Ordinance 14914,
163 Section 271, as amended, and K.C.C. 16.05.030, Ordinance
164 14914, Section 273, as amended, and K.C.C. 16.05.050,
165 Ordinance 14914, Section 277, as amended, and K.C.C.
166 16.05.090, Ordinance 15802, Section 84, and K.C.C.
167 16.05.102, Ordinance 15802, Section 86, and K.C.C.
168 16.05.104, Ordinance 11797, Section 2, as amended, and
169 K.C.C. 16.05.106, Ordinance 2910, Section 4 (part), as
170 amended, and K.C.C. 16.05.108, Ordinance 12560, Section
171 57, as amended, and K.C.C. 16.05.110, Ordinance 11797,
172 Section 1, as amended, and K.C.C. 16.05.120, Ordinance
173 15802, Section 93, as amended, and K.C.C. 16.05.124,
174 Ordinance 11797, Section 3, as amended, and K.C.C.
175 16.05.127, Ordinance 14238, Section 18, as amended, and
176 K.C.C. 16.06.010, Ordinance 14238, Section 19, as
177 amended, and K.C.C. 16.06.020, Ordinance 14238, Section
178 21, as amended, and K.C.C. 16.06.030, Ordinance 14914,
179 Section 288, as amended, and K.C.C. 16.06.031, Ordinance
180 14914, Section 289, as amended, and K.C.C. 16.06.032,
181 Ordinance 14914, Section 290, as amended, and K.C.C.

182 16.06.033, Ordinance 14914, Section 291, as amended, and
183 K.C.C. 16.06.034, Ordinance 14914, Section 292, as
184 amended, and K.C.C. 16.06.035, Ordinance 14914, Section
185 293, and K.C.C. 16.06.036, Ordinance 14914, Section 294,
186 and K.C.C. 16.06.037, Ordinance 14914, Section 295, and
187 K.C.C. 16.06.038, Ordinance 14238, Section 21, as
188 amended, and K.C.C. 16.06.040, Ordinance 14238, Section
189 22, as amended, and K.C.C. 16.06.050, Ordinance 14238,
190 Section 23, as amended, and K.C.C. 16.06.060, Ordinance
191 14238, Section 24, as amended, and K.C.C. 16.06.070,
192 Ordinance 14238, Section 25, as amended, and K.C.C.
193 16.06.080, Ordinance 14111, Section 118, as amended, and
194 K.C.C. 16.12.010, Ordinance 15802, Section 103, and
195 K.C.C. 16.12.012, Ordinance 14111, Section 129, and
196 K.C.C. 16.14.010, Ordinance 14914, Section 340, and
197 K.C.C. 16.14.070, Ordinance 14914, Section 341, and
198 K.C.C. 16.14.080, Ordinance 12560, Section 116, as
199 amended, and K.C.C. 16.14.120, Ordinance 12560, Section
200 118, as amended, and K.C.C. 16.14.130, Ordinance 14914,
201 Section 354, and K.C.C. 16.14.160, Ordinance 14914,
202 Section 355, and K.C.C. 16.14.170, Ordinance 12560,
203 Section 119, as amended, and K.C.C. 16.14.180, Ordinance
204 14914, Section 358, and K.C.C. 16.14.190, Ordinance

205 12560, Section 136, as amended, and K.C.C. 16.14.230,
206 Ordinance 12560, Section 137, as amended, and K.C.C.
207 16.14.240, Ordinance 14914, Section 368, and K.C.C.
208 16.14.260, Ordinance 14914, Section 369, and K.C.C.
209 16.14.270, Ordinance 14238, Section 5, as amended, and
210 K.C.C. 16.14.300, Ordinance 14238, Section 6, as
211 amended, and K.C.C. 16.14.310, Ordinance 14238, Section
212 7, as amended, and K.C.C. 16.14.320, Ordinance 15802,
213 Section 106, as amended, and K.C.C. 16.14.321, Ordinance
214 14238, Section 8, as amended, and K.C.C. 16.14.330,
215 Ordinance 14238, Section 9, as amended, and K.C.C.
216 16.14.340, Ordinance 14238, Section 10, as amended, and
217 K.C.C. 16.14.350, Ordinance 14238, Section 11, as
218 amended, and K.C.C. 16.14.360, Ordinance 15802, Section
219 109, and K.C.C. 16.14.365, Ordinance 15802, Section 110,
220 and K.C.C. 16.14.366, Ordinance 14238, Section 12, as
221 amended, and K.C.C. 16.14.370, Ordinance 14238, Section
222 13, as amended, and K.C.C. 16.14.380, Ordinance 15802,
223 Section 113, and K.C.C. 16.14.385, Ordinance 14238,
224 Section 14, as amended, and K.C.C. 16.14.390, Ordinance
225 14238, Section 15, as amended, and K.C.C. 16.14.400,
226 Ordinance 14914, Section 396, and K.C.C. 16.14.420,
227 Ordinance 14914, Section 399, and K.C.C. 16.14.440,

228 Ordinance 14914, Section 417, and K.C.C. 16.14.560,
229 Ordinance 8330, Section 34, as amended, and K.C.C.
230 16.32.085, Ordinance 6746, Section 19, KCC 16.32.170,
231 Ordinance 15802, Section 120, and K.C.C. 16.32.175,
232 Ordinance 15802, Section 121, and K.C.C. 16.32.185,
233 Ordinance 15802, Section 125, and K.C.C. 16.32.225,
234 Ordinance 15802, Section 127, and K.C.C. 16.32.245,
235 Ordinance 15802, Section 129, and K.C.C. 16.32.265,
236 Ordinance 15802, Section 134, as amended, and K.C.C.
237 16.32.315, Ordinance 15802, Section 135, and K.C.C.
238 16.32.326, Ordinance 15802, Section 136, and K.C.C.
239 16.32.335, Ordinance 12560, Section 151, as amended, and
240 K.C.C. 17.04.270, Ordinance 12560, Section 150, as
241 amended, and K.C.C. 17.04.300, Ordinance 12560, Section
242 158, as amended, and K.C.C. 17.04.340, Ordinance 12560,
243 Section 159, as amended, and K.C.C. 17.04.350, Ordinance
244 12560, Section 162, as amended, and K.C.C. 17.04.360,
245 Ordinance 14111, Section 201, as amended, and K.C.C.
246 17.04.430, Ordinance 12560, Section 170, as amended, and
247 K.C.C. 17.04.440, Ordinance 14111, Section 202, as
248 amended, and K.C.C. 17.04.460, Ordinance 14111, Section
249 203, as amended, and K.C.C. 17.04.470, Ordinance 14111,
250 Section 205, as amended, and K.C.C. 17.04.480, Ordinance

251 14111, Section 213, as amended, and K.C.C. 17.04.490,
252 Ordinance 14111, Section 206, as amended, and K.C.C.
253 17.04.500, Ordinance 14111, Section 210, as amended, and
254 K.C.C. 17.04.510, Ordinance 15803, Section 26, as
255 amended, and K.C.C. 17.04.522, Ordinance 6328, Section
256 4, as amended, and K.C.C. 17.04.530, Ordinance 14915,
257 Section 79, as amended, and K.C.C. 17.04.550, Ordinance
258 17837, Section 82, and K.C.C. 17.04.565, Ordinance
259 14111, Section 220, as amended, and K.C.C. 17.04.570,
260 Ordinance 12560, Section 175, as amended, and K.C.C.
261 17.04.580, Ordinance 15803, Section 8, as amended, and
262 K.C.C. 17.04.583, Ordinance 14238, Section 29, as
263 amended, and K.C.C. 17.04.600, Ordinance 14238, Section
264 30, as amended, and K.C.C. 17.04.610, Ordinance 14238,
265 Section 31, as amended, and K.C.C. 17.04.620, Ordinance
266 8726, Section 1, as amended, and K.C.C. 17.04.630,
267 Ordinance 5828, Section 2, and K.C.C. 17.08.010,
268 Ordinance 5828, Section 5, as amended, and K.C.C.
269 17.08.040, Ordinance 5828, Section 6, and K.C.C.
270 17.08.050, Ordinance 5828, Section 7, and K.C.C.
271 17.08.060, Ordinance 5828, Section 8, and K.C.C.
272 17.08.070, Ordinance 5828, Section 9, and K.C.C.
273 17.08.080, Ordinance 3087, Section 10, and K.C.C.

274 17.08.110, Ordinance 3087, Section 11, and K.C.C.

275 17.08.120, Ordinance 5828, Section 14, and K.C.C.

276 17.08.150 and Ordinance 7080, Section 2, and K.C.C.

277 17.08.160.

278 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

279 SECTION 1. Ordinance 14111, Section 3, as amended, and K.C.C. 16.02.100 are
280 hereby amended to read as follows:

281 This chapter applies to the chapters in this title regarding the International
282 Building Code (K.C.C. chapter 16.04), the International Residential Code (K.C.C.
283 chapter 16.05), the International Energy Conservation Code (K.C.C. chapter 16.XX (the
284 new chapter established by section 68 of this ordinance), the International Mechanical
285 Code, the International Existing Building Code, the International Property Maintenance
286 Code (K.C.C. chapter 16.14), the ((International Mechanical Code (K.C.C. chapter
287 16.12)) Uniform Plumbing Code (K.C.C. chapter 16.32) and the King County Building

288 Security Code (K.C.C. chapter 16.10).

289 SECTION 2. Ordinance 14111, Section 4, as amended, and K.C.C. 16.02.110 are
290 hereby amended to read as follows:

291 A. The ((~~International Building Code, 2012 Edition, with Appendix C and E, as~~
292 ~~amended in chapter 51-50 WAC, Appendix Z, as adopted by this title, and the~~
293 ~~International Residential Code for One and Two Family Dwellings 2012 Edition, with~~
294 ~~Appendix G, H and K, 2012 Edition, as amended in chapter 51-51 WAC, as)) following
295 codes published by or jointly with the International Code Council, Inc., together with
296 amendments, additions, exceptions and deletions adopted in this ((~~chapter~~)) title by~~

297 reference, together with the State Building Code Act, chapter 19.27 RCW, which are
298 referred to in this title as "the International codes" and with King County modifications
299 that are adopted and codified in this chapter, are adopted as the King County building
300 codes and may be cited as such and are referred to in this chapter as "this code((-))":

301 1. The International Building Code, 2018 Edition, effective February 1, 2021,
302 together with Appendix C (Group U – Agricultural buildings), as amended in chapter 51-
303 50 WAC, and Appendix Z (Seattle-Tacoma sound reduction standards), as adopted by
304 this title, and referred to in this title as "the International Building Code" or, when used in
305 a citation, "IBC";

306 2. The International Residential Code, 2018 edition, effective February 1, 2021,
307 except for Chapter 11 and Chapters 25 through 43, together with Appendices F (Radon
308 control methods), H (Patio covers), K (Sound transmission) and T [RE] (Solar-ready
309 provisions-detached one- and two-family dwellings and townhouses), as amended in
310 chapter 51-51 WAC, and referred to in this title as the "International Residential Code"
311 or, when used in a citation, "IRC";

312 3. The International Energy Conservation Code, Commercial, 2018 edition,
313 effective February 1, 2021, together with Appendices A (Default heat loss coefficients),
314 B (Default internal load values and schedules), C (Exterior design conditions) and D
315 (Calculation of HVAC total system performance ratio), as amended in chapter 51-11C
316 WAC; and the International Energy Conservation Code, Residential, 2018 edition,
317 effective February 1, 2021, together with Appendices A (Default heat loss coefficients),
318 B (Optional energy efficiency measures) and C (Exterior design conditions), as amended

319 in chapter 51-11R WAC, and referred to in this title as the "International Energy
320 Conservation Code" or, when used in a citation, "IECC";

321 4. The International Mechanical Code, 2018 Edition, effective February 1, 2021,
322 together with Appendix A (Chimney connector pass-through), as amended in chapter 51-
323 52 WAC, and hereinafter referred to as the "International Mechanical Code" or, when
324 used in a citation, "IMC";

325 5. The International Existing Building Code, 2018 Edition, effective February 1,
326 2021, with Appendix A (Guidelines for the Seismic Retrofit of Existing Buildings), as
327 amended in chapter WAC 51-50, and referred to in this title as the "International Existing
328 Building Code" or, when used in a citation, "IEBC"; and

329 6. The International Property Maintenance Code, 2018 Edition, effective
330 February 1, 2021, and referred to in this title as the "International Property Maintenance
331 Code" or, when used in a citation, "IPMC."

332 B. This code also may be further clarified and implemented with administrative
333 rules adopted in accordance with K.C.C. chapter 2.98.

334 SECTION 3. Ordinance 14914, Section 8, and K.C.C. 16.02.140 are hereby
335 amended to read as follows:

336 Chapter 1 of the International Residential Code (~~for One and Two Family~~
337 ~~Dwellings~~) is not adopted and Chapter 1 of the International Building Code as amended
338 and supplemented in this chapter is substituted.

339 NEW SECTION. SECTION 4. There is hereby added to K.C.C. chapter 16.02 a
340 new section to read as follows:

341 Chapter 1 of the International Energy Conservation Code is not adopted and
342 Chapter 1 of the International Building Code as amended and supplemented in this
343 chapter is substituted.

344 **EXCEPTIONS:**

- 345 A. Mixed residential and commercial buildings (IECC C101.4.1);
- 346 B. Compliance (IECC C101.5);
- 347 C. Building documentation and close-out submittal requirements (IECC C103.6);
- 348 D. Record documents (IECC C103.6.1);
- 349 E. Building operations and maintenance information (IECC C103.6.2);
- 350 F. Manuals (IECC C103.6.2.1);
- 351 G. Compliance documentation (IECC C103.6.3);
- 352 H. Systems operation training (IECC C103.6.4); and
- 353 I. International Energy Conservation Code Sections as amended and
354 supplemented in this title.

355 NEW SECTION. SECTION 5. There is hereby added to K.C.C. chapter 16.02 a
356 new section to read as follows:

357 Chapter 1 of the International Existing Building Code is not adopted and Chapter
358 1 of the International Building Code as amended and supplemented in this chapter is
359 substituted.

360 SECTION 6. Ordinance 14914, Section 9, as amended, and K.C.C. 16.02.150 are
361 hereby amended to read as follows:

362 Section 101.1 of the International Building Code is not adopted and the following
363 is substituted:

364 These regulations shall be known as the Building Codes of King County. These
365 codes are the International Building Code (IBC), the International Residential Code (~~for~~
366 ~~One and Two Family Dwellings~~) (IRC) (~~and~~), the International Energy Conservation
367 Code (IECC), the International Mechanical Code (IMC), the International Existing
368 Building Code (IEBC), the International Property Maintenance Code (IPMC), the
369 Uniform Plumbing Code, the King County Building Security Code (K.C.C. chapter
370 16.10) and the International Fire Code (IFC), as adopted in K.C.C. Title 17.

371 SECTION 7. Ordinance 15802, Section 5, as amended, and K.C.C. 16.02.152 are
372 hereby amended to read as follows:

373 Section 101.2 of the International Building Code is not adopted and the following
374 is substituted:

375 (~~Scope (IBC 101.2).~~) **Scope (IBC 101.2).** The provisions of this code shall
376 apply to the construction, alteration, movement, enlargement, replacement, repair,
377 equipment, use and occupancy, location, maintenance, removal and demolition of every
378 building or structure or any appurtenances connected or attached to such buildings or
379 structures.

380 **EXCEPTIONS:**

381 1. The provisions of the International Residential Code (~~for One and Two~~
382 ~~Family Dwellings~~) shall apply to the following:

383 1.1 (~~(†)~~)The construction, alteration, movement, enlargement, replacement,
384 repair, equipment, use and occupancy, location, removal and demolition of detached one-
385 and two-family dwellings and (~~multiple single family dwellings~~) townhouses (~~(†)~~), not
386 more than three stories in height above grade plane with a separate means of egress and

387 their accessory structures, including adult family homes, foster family care homes and
388 family day care homes licensed by the Washington state ~~((d))~~Department of ~~((s))~~Social
389 and ~~((h))~~Health ~~((s))~~Services.

390 1.2. ~~((The provisions of the International Residential Code for One and Two~~
391 ~~Family Dwellings shall apply to d))~~Detached residential accessory structures that are
392 used for home occupations ~~((and))~~ or home industries that include offices, mercantile,
393 food preparation for off-site consumption, personal care salons and similar uses, if the
394 home occupation or home industry is subordinate to the primary residential use of the site
395 and the total cumulative floor area devoted to the home occupation or home industry in
396 ~~((any))~~ each detached accessory structure on-site is less than or equal to 500 square feet
397 ~~((46.4m²))~~ 46.5m².

398 1.3. Live/work units located in townhouses and complying with the
399 requirements of IBC 419. Fire suppression required by IBC 419.5 when constructed
400 under the International Residential Code shall conform to Appendix U - Dwelling unit
401 fire sprinkler systems, as adopted in chapter 51-51 WAC.

402 1.4. Owner-occupied lodging houses with one or two guestrooms.

403 1.5. Owner-occupied lodging houses with three to five guestrooms where
404 equipped with a fire sprinkler system in accordance with Appendix U - Dwelling unit fire
405 sprinkler systems, as adopted in chapter 51-51 WAC.

406 ~~((3-))~~ 2. The provisions of the International Mechanical Code shall regulate the
407 design, installation, maintenance, alteration and inspection of mechanical systems that are
408 permanently installed and ~~((utilized))~~ used to provide control of the environmental
409 conditions and related processes within buildings. This code shall also regulate those

410 mechanical systems, system components, equipment and appliances specifically
411 addressed (~~herein~~) in this section. The installation of fuel gas distribution piping and
412 equipment, fuel gas-fired appliances and fuel gas-fired appliance venting systems shall be
413 regulated by the International Fuel Gas Code and WAC 51-52-0101.

414 NEW SECTION. SECTION 8. There is hereby added to K.C.C. chapter 16.02 a
415 new section to read as follows:

416 Section 101.4.1 of the International Building Code is not adopted.

417 NEW SECTION. SECTION 9. There is hereby added to K.C.C. chapter 16.02 a
418 new section to read as follows:

419 Section 101.4.3 of the International Building Code is not adopted.

420 SECTION 10. Ordinance 14914, Section 10, and K.C.C. 16.02.160 are hereby
421 amended to read as follows:

422 Section 102.4 of the International Building Code is not adopted and the following
423 is substituted:

424 **Referenced Codes and Standards (IBC 102.4).** The codes and standards
425 referenced in this code shall be considered part of the requirements of this code to the
426 prescribed extent of each such reference and as further regulated in IBC 102.4.1 and
427 102.4.2. Where differences occur between provisions of this code and referenced code
428 and standards, the provisions of this code shall apply.

429 **EXCEPTION:** Where enforcement of a code provision would violate the
430 conditions of the listing of the equipment or appliance, the conditions of the listing and
431 manufacturer's instructions shall apply.

432 **SECTION 11.** Ordinance 12560, Section 55, as amended, and K.C.C. 16.02.170
433 are hereby amended to read as follows:

434 Section 102 of the International Building Code is supplemented with the
435 following:

436 **Moved buildings (~~and temporary buildings~~) (IBC (~~102.7.2~~) 102.6.3).**

437 1. Buildings or structures moved into or within the jurisdiction shall comply with
438 the provisions for new buildings or structures of the International Building Code, chapter
439 51-50 WAC, the International Residential Code (~~for One- and Two-Family Dwellings~~),
440 chapter 51-51 WAC, the International Mechanical Code, chapter 51-52 WAC, the
441 International Fire Code, chapter 51-54A WAC, the Uniform Plumbing Code and
442 Standards, chapter 51-56 WAC, the International Energy Conservation Code,
443 Commercial, chapter 51-11C WAC and the International Energy Conservation Code,
444 Residential, chapter 51-11R WAC.

445 **EXCEPTION:** (~~Group R3~~) Detached one- and two-family dwellings, buildings
446 or structures are not required to comply if:

447 1.1. The original occupancy classification is not changed, and

448 1.2. The original building is not substantially remodeled or rehabilitated. For
449 the purposes of this section a building shall be considered to be substantially remodeled
450 when the costs of remodeling exceed (~~60~~) 50 percent of the value of the building
451 exclusive of the costs relating to preparation, construction, demolition or renovation of
452 foundations.

453 No person shall move within or into the unincorporated areas of King County, or
454 cause to be moved, any building or structure without first obtaining, in addition to the

455 building permit, a relocation investigation permit from the building official. The purpose
456 of this relocation investigation permit is to determine ~~((prior to))~~, before relocation, the
457 deficiencies in the building. Before a structure is relocated to a proposed site, a building
458 permit shall be obtained.

459 2. The building official shall not approve for moving nor issue a building permit
460 for a building or structure which constitutes a public nuisance or endangers the public
461 health, safety~~((s))~~ or general welfare, and in the building official's opinion it is physically
462 impractical to restore such building or structure to make it comply with this code.

463 3. A fee shall be charged for relocation investigations and site inspection
464 services. A building permit fee shall also be charged for all structures which are
465 approved for relocation. Fees for permits and services provided under this section shall
466 be paid to the department of local services, permitting division, ~~((as set forth))~~ in
467 accordance with K.C.C. Title 27, ~~((Building and Constructions))~~ Development Permit468 Fees. ~~((As a condition of securing the building permit, the owner of the building or~~
469 ~~structure shall deposit cash or its equivalent with the building official, or in an approved~~
470 ~~irrevocable escrow, in an amount up to \$5000.00.))~~

471 4. Relocation investigation fees do not apply to structures having acceptable
472 current inspections, such as factory-built units.

473 ~~((4.1 If the building official denies a building permit for the relocation of a~~
474 ~~structure, the applicant may request, within 10 days of the date of mailing or other~~
475 ~~issuance of the denial notice, that building official refer the building permit application to~~
476 ~~the building code advisory board. The advisory board shall review the application and~~

477 ~~make a recommendation to the building official, who may reconsider the denial in light~~
478 ~~of the advisory board's recommendation.))~~

479 SECTION 12. Ordinance 14914, Section 16, as amended, and K.C.C. 16.02.200
480 are hereby amended to read as follows:

481 Section 104.3 of the International Building Code is not adopted and the following
482 is substituted:

483 **Notice and orders (IBC 104.3).** The ~~((right of entry))~~ notices and orders shall be
484 in accordance with the procedures specified in K.C.C. Title 23.

485 SECTION 13. Ordinance 12560, Section 10, as amended, and K.C.C. 16.02.240
486 are hereby amended to read as follows:

487 Section 105.2 of the International Building Code is not adopted and the following
488 is substituted:

489 **Work exempt from permit (IBC 105.2).** A building permit shall not be required
490 for the following:

491 Building:

492 1. One-story detached one- and ~~((two-family))~~ two-family residential accessory
493 buildings used as tool and storage sheds, playhouses, ~~((tree-supported))~~ tree-supported
494 structures used for play and similar uses, not including garages or other buildings used
495 for vehicular storage, ~~((provided))~~ if:

496 1.1 ~~((†))~~The floor area does not exceed 200 square feet ~~((11.15 m²))~~ provided
497 ~~that the roof overhang))~~ (18.6 m²);

498 1.2 The roof eave does not project closer than three feet to any portion of an
499 adjacent building and does not exceed twenty-four inches measured horizontally from the
500 exterior wall; and

501 1.3 The building is separated a minimum of five feet from all other buildings.

502 2. One-story detached commercial agricultural and forestry accessory buildings
503 used as animal shelters or (~~sheds~~) for the storage of tools, animal feed, animal bedding,
504 seeds, seedlings or similar materials or products, not including office, sleeping or resting
505 quarters(~~;~~) for human occupation or garages (~~or buildings used for vehicle storage,~~
506 ~~provided~~), if:

507 2.1. ((~~†~~))The floor area does not exceed ((~~200~~) 400 square feet (((~~11.15~~)) 37.2
508 m² ((~~provided that the roof overhang~~));

509 2.2. The roof eave does not project closer than three feet to any portion of an
510 adjacent building and does not exceed twenty-four inches measured horizontally from the
511 exterior wall;

512 2.3. The building is separated a minimum of five feet from other buildings;
513 and

514 2.4. The building does not have an installed heating system and is not connected
515 to water, sanitary sewer or septic service.

516 3. Fences not over 6 feet (~~((1.829 m))~~) 1.8 m high.

517 4. Retaining walls that are not over 4 feet (~~((1.219 m))~~) 1.2 m in height measured
518 from the bottom of the footing to the top of the wall, unless supporting a surcharge or
519 impounding Class I, II or (~~(H-A))~~ IIIA liquids.

520 5. Water tanks supported directly upon grade if the capacity does not exceed
521 5,000 gallons (18,927 l) and the ratio of height to diameter or width does not exceed 2 to
522 1.

523 6. Sidewalks, decks and driveways not more than 30 inches (~~((762 mm))~~ 762 mm)
524 above grade and not over any basement or story below and that are not part of an
525 accessible route.

526 7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish
527 work.

528 8. Temporary motion picture, television and theater stage sets and scenery.

529 9. Prefabricated swimming pools accessory to a (~~Group R, Division 3~~
530 ~~Occupancy~~) detached one- or two-family dwelling as applicable in (~~Section~~) IBC
531 101.2, that are installed entirely above ground and are either less than 24 inches (610
532 mm) deep and do not exceed 5,000 gallons (18,925 l) or are installed for temporary use of
533 less than three months in a twelve month period.

534 10. (~~Shade cloth structures constructed for nursery or agricultural purposes, and~~
535 ~~not including service systems~~) Temporary growing structures and temporary worker
536 housing as exempted by WAC 51-50-007.

537 11. Swings and other playground equipment.

538 12. Window awnings for detached one- and two-family dwellings supported by
539 an exterior wall that do not project more than 54 inches (1,372 mm) from the exterior
540 wall and do not require additional support (~~of Group R3, as applicable in Section 101.2,~~
541 ~~and Group U Occupancies~~)).

542 13. Moveable cases, counters and partitions not over 5 feet 9 inches (~~((228.6 m))~~)
543 1.75m) high.

544 14. (~~((Re-roofing))~~) Reroofing of existing one- and two-family residential
545 buildings.

546 **EXCEPTION:** When replacement roofing adds more than 5 pounds per square
547 foot cumulative dead load to the weight of the original roofing a permit shall be required.

548 15. Submerged, freestanding mechanical boat lifts associated with single-family
549 residential piers and recreational watercraft not exceeding 25 feet (7.6 m) in length or 15
550 feet (4.6 m) in width with no portion exceeding a height of 10 feet (3.0 m) above the
551 ordinary high water mark as defined in K.C.C. 21A.06.825.

552 16. Work located primarily in a public way, public utility towers and poles.

553 17. Mechanical equipment not specifically regulated in this code.

554 18. Antenna and dishes that fall under FCC Antenna Rule 47 C.F.R including
555 masts under twelve feet above the roof line and dishes up to one meter in diameter.

556 19. Roof-mounted (~~((photo-voltaic))~~) photovoltaic solar panels (~~((from))~~) for one-
557 and ((two-family)) two-family dwellings that have a total dead load not exceeding
558 (~~((three))~~) four pounds per square foot and are (~~((mounted))~~) no more than 18 inches (457
559 mm) above the roof or highest roof point on which they are mounted.

560 20. (~~((Ground-mounted))~~) Ground-mounted wind turbines for one- and (~~((two~~
561 ~~family))~~) two-family dwellings for which any portion of the unit does not exceed twelve
562 feet (3.7 m) in height.

563 Gas:

564 1. Portable heating or cooking appliances.

565 2. Replacement of any minor part that does not alter approval of equipment or
566 make such equipment unsafe.

567 Mechanical:

568 1. Portable heating or clothes drying appliances.

569 2. Portable ventilation appliances and equipment.

570 3. Portable cooling unit.

571 4. Steam, hot or chilled water piping within any heating or cooling equipment
572 regulated by this code.

573 5. Replacement of any part that does not alter its approval or make it unsafe.

574 6. Portable evaporative cooler.

575 7. Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of
576 refrigerant and actuated by motors of one horsepower (746 W) or less.

577 8. Portable fuel cell appliances that are not connected to a fixed piping system
578 and are not interconnected to a power grid.

579 ~~((Unless otherwise exempted,))~~ Exempted items shall still be subject to separate
580 plumbing, electrical and mechanical permits ~~((will be required for the above-exempted~~
581 ~~items))~~.

582 Exemption from the permit requirements of this code shall not be deemed to grant
583 authorization for any work to be done in any manner in violation of the provisions of this
584 code or any other laws or ordinances of this jurisdiction.

585 SECTION 14. Ordinance 14914, Section 23, as amended, and K.C.C. 16.02.250
586 are hereby amended to read as follows:

587 Section 105.2.~~((3))~~2 of the International Building Code is not adopted.

588 SECTION 15. Ordinance 11622, Section 3, as amended, and K.C.C. 16.02.260
589 are hereby amended to read as follows:

590 Section 105.3 of the International Building Code is not adopted and the following
591 is substituted:

592 **Application for permit - Complete applications (IBC 105.3).**

593 ~~((A-))~~ 1. For the purposes of determining the application of time periods and
594 procedures adopted by K.C.C. Title 20, applications for permits authorized by K.C.C.
595 chapter 16.04 shall be considered complete as of the date of submittal upon determination
596 by the department that the materials submitted contain the following, in addition to the
597 complete application requirements of K.C.C. 20.20.040. Every application shall:

598 1.1. Identify and describe the work to be covered by the permit for which
599 application is made.

600 1.2. Indicate the use or occupancy of which the proposed work is intended.

601 1.3. Be accompanied by plans, diagrams, computations and specifications and
602 other data as required in IBC (~~(Section 106.1)~~) 107.

603 1.4. State the valuation of any new building or structure or any addition,
604 remodeling or alteration to an existing building.

605 1.5. Give such other data and information as may be required by the building
606 official.

607 1.6. Identify on the site plan (~~((ø))~~) all easements, deed restrictions(~~((;))~~) or other
608 encumbrances restricting the use of the property, and provide details as required in IBC
609 107.2.6 and as otherwise required by the building official.

610 SECTION 16. Ordinance 12560, Section 18, as amended, and K.C.C. 16.02.290
611 are hereby amended to read as follows:

612 Section 105.5 of the International Building Code is not adopted and the following
613 is substituted:

614 **Expiration (IBC 105.5).** Every permit approved by the building official under
615 ~~((the provisions of))~~ the ~~((€))~~ code shall expire by limitation and become null and void
616 ~~((one))~~ two years from the date of its issue.

617 **EXCEPTION:** Building permits issued by the building official to correct a code
618 violation, or mechanical permits issued independent of a building permit, shall expire by
619 limitation and become null and void one year from the date of its issue.

620 Issued permits may be extended for ~~((one-year))~~ one-year periods subject to the
621 following conditions:

622 1. An application for a permit extension together with the applicable fee is
623 submitted to the department at least ~~((seven-))~~7(~~(+))~~, but no more than ~~((sixty-))~~60(~~(+))~~,
624 calendar days ~~((prior to))~~ before the date the original permit becomes null and void.

625 Once the permit extension application is submitted and if that extension is not denied,
626 work may continue past the expiration date of the original permit~~((, provided that the~~
627 ~~extension application is not denied))~~. If the extension application is denied, all work
628 must stop until a valid permit is obtained.

629 2. The permit shall not be extended ~~((I))~~if:

630 2.1. ~~((e))~~Construction of a building or structure has not substantially
631 ~~((commenced))~~ begun, as determined by the building official, within two years from the
632 date of the first issued permit; and

633 2.2. ~~((t))~~The building ~~((and))~~ or the structure, or its intended use, is no longer
634 authorized by the zoning code or other applicable law~~((, then the permit shall not be~~
635 ~~extended))~~.

636 3. An applicant may request a total of two permit extensions ~~((provided))~~ if there
637 are no substantial changes in the approved plans and specifications.

638 4. The building official may extend a building permit beyond the second
639 extension only to allow completion of a building, structure or mechanical system
640 authorized by the original permit and substantially constructed. If substantial work, as
641 determined by the building official, has not ~~((commenced))~~ begun on a building, ~~((and/~~
642 ~~or))~~ structure or mechanical system authorized in the original permit, then a new permit
643 ~~((will))~~ shall be required for construction to proceed.

644 5. The staff of the department may revise a permit at the permittee's request but
645 such a revision does not constitute a renewal or otherwise extend the life of the permit.

646 SECTION 17. Ordinance 12560, Section 20, as amended, and K.C.C. 16.02.340
647 are hereby amended to read as follows:

648 Section 107.3.3 of the International Building Code is not adopted and the
649 following is substituted:

650 **Pre-issuance construction authorization (PICA) - Permission to proceed (IBC**

651 ~~((106.3.3))~~ **107.3.3**). If the applicant for a permit or approval required by this code
652 desires to ~~((commence))~~ begin work before obtaining the required permit or approval, the
653 building official~~((;))~~ may allow the applicant to proceed if:

654 1. The building official determines that the work would not endanger or harm the
655 property; ~~((and if))~~

656 2. The building official determines that allowing the work to proceed would not
657 violate the requirements of the state environmental policy act; and ~~((if))~~

658 3. The applicant first deposits cash or its equivalent with the building official, or
659 in an irrevocable escrow approved by the building official, in an amount determined by
660 the building official to be sufficient to restore the building and site, and to perform the
661 corrective work described ~~((below))~~ in K.C.C. 16.02.350.

662 SECTION 18. Ordinance 12560, Section 25, as amended, and K.C.C. 16.02.400
663 are hereby amended to read as follows:

664 Section ~~((108 and all subsections thereto))~~ 109 of the International Building Code
665 ~~((are))~~ is not adopted and the following is substituted:

666 **Fees (IBC ~~((108))~~ 109).** Fees shall be assessed according to K.C.C. Title 27.

667 SECTION 19. Ordinance 12560, Section 26, as amended, and K.C.C. 16.02.410
668 are hereby amended to read as follows:

669 Section 110.1 of the International Building Code is supplemented with the
670 following:

671 **Inspection record card (IBC 110.1.1).** Work requiring a permit shall not ~~((be~~
672 ~~commenced))~~ begin until the permit holder or an agent of the permit holder ~~((shall have~~
673 ~~posted))~~ posts or otherwise ~~((made))~~ makes available an inspection record card in a
674 conspicuous place on the premises ~~((and in a position))~~ such as to allow the building
675 official to conveniently make ~~((the required))~~ entries ~~((thereon))~~ regarding inspection of
676 the work. This card shall be ~~((maintained))~~ available ~~((in such a position by the permit~~
677 ~~holder))~~ until the Certificate of Occupancy has been issued. ~~((For R-3 and U occupancies~~
678 ~~and structures built under the International Residential Code for One and Two Family~~

679 ~~Dwellings, this card shall serve as the certificate of occupancy. If more than two units~~
680 ~~are located on the same lot, the Certificate of Occupancy shall be used. The))~~ A validated
681 hard copy of the building permit application (~~(given to the applicant)~~) at the time of
682 ~~((the))~~ permit issuance shall serve as the inspection record card. This validated hard copy
683 of the building permit application shall thereafter be referred to as the building permit.

684 SECTION 20. Ordinance 14914, Section 55, as amended, and K.C.C. 16.02.420
685 are hereby amended to read as follows:

686 Section 110.3.3 of the International Building Code is not adopted and the
687 following is substituted:

688 **Lowest floor elevation (IBC 110.3.3).** In flood hazard areas, upon placement of
689 the lowest floor, including the basement, and ~~((prior to))~~ before further vertical
690 construction, the elevation ~~((certification))~~ certificate required in ~~((section 1612.5))~~ IBC
691 1612.4 and in K.C.C. chapter 21A.24 shall be submitted to the building official.

692 SECTION 21. Ordinance 14914, Section 57, as amended, and K.C.C. 16.02.440
693 are hereby amended to read as follows:

694 Section ~~((410.3.7))~~ 110.3.8 of the International Building Code is not adopted and
695 the following is substituted:

696 **Energy efficiency inspections (IBC ~~((110.3.7))~~ 110.3.8).** Energy efficiency
697 inspections shall be in accordance with the International Energy Conservation Code, as
698 adopted and amended by chapters 51-11C and 51-11R WAC, and as amended in this title.

699 SECTION 22. Ordinance 12560, Section 30, as amended, and K.C.C. 16.02.470
700 are hereby amended to read as follows:

701 Section 111.2 of the International Building Code is not adopted and the following
702 is substituted:

703 **Certificates issued (IBC 111.2).** The building official may issue either a
704 certificate of occupancy or a certificate of shell completion. The inspection record card
705 specified in K.C.C. 16.02.410 shall serve as the certificate of occupancy for structures
706 built under the International Residential Code.

707 SECTION 23. Ordinance 14914, Section 78, as amended, and K.C.C. 16.02.550
708 are hereby amended to read as follows:

709 ~~((Sections 112.1 and 112.2))~~ Section 112 of the International Building Code
710 ~~((are))~~ is not adopted.

711 SECTION 24. Ordinance 14914, Section 81, as amended, and K.C.C. 16.02.570
712 are hereby amended to read as follows:

713 Section 113~~((3))~~ of the International Building Code is not adopted.

714 SECTION 25. Ordinance 14914, Section 89, and K.C.C. 16.03.010 are hereby
715 amended to read as follows:

716 This chapter and K.C.C. 16.02.110 contain~~((s))~~ definitions of technical and
717 procedural terms that are used throughout the title. The definitions in this chapter and
718 K.C.C. 16.02.110 supplement the definitions contained in the International codes adopted
719 in this title.

720 SECTION 26. Ordinance 14914, Section 90, as amended, and K.C.C. 16.03.020
721 are hereby amended to read as follows:

722 The following definitions in ~~((s))~~Section 202 of the International Building Code
723 are not adopted:

- 724 A. Base flood;
- 725 B. Base flood elevation
- 726 C. Coastal high-hazard area;
- 727 D. Design flood;
- 728 ((~~C.~~)) E. Dry floodproofing;
- 729 ((~~D.~~ Existing construction;
- 730 ~~E.~~)) F. Flood hazard area;
- 731 ((~~F.~~ Flood hazard area subject to high velocity wave action;))
- 732 G. Flood insurance rate map (FIRM);
- 733 H. Flood insurance study;
- 734 I. Floodway;
- 735 J. ((~~High Rise Building;~~)) Historic buildings;
- 736 K. ((~~Nonbuilding structure;~~)) Special flood hazard area; and
- 737 L. ((~~Start of construction; and~~
- 738 ~~M.~~)) Substantial improvement.

739 SECTION 27. Ordinance 3647, Section 3, as amended, and K.C.C. 16.03.040 are
740 hereby amended to read as follows:

741 Whenever the following words appear in the code, they are to be changed as
742 follows:

- 743 A. Building official or code official to the department of local services permitting
744 division manager or designee;
- 745 B. Name of jurisdiction to unincorporated King County;

746 C. The department of building and safety to King County department of local
747 services, permitting division; and

748 D. Design flood elevation to base flood elevation((;
749 ~~E. Mobile home to manufactured home~~)).

750 NEW SECTION. SECTION 28. There is hereby added to K.C.C. chapter 16.03
751 a new section to read as follows:

752 Air admittance valve: a device that:

753 A. Allows air to enter the plumbing drainage system in one direction to protect
754 fixture traps from siphonage when negative pressures develop;

755 B. Prevents sewer gases from entering the interior building atmosphere during
756 static pressure or positive pressure conditions in the plumbing waste system; and

757 C. Is listed to ASSE 1051 or ASSE 1050.

758 NEW SECTION. SECTION 29. There is hereby added to K.C.C. chapter 16.03
759 a new section to read as follows:

760 Boiler: any heating appliance or equipment that:

761 A. Heats potable water and supplies such water to the potable hot water
762 distribution system; and

763 B. Exceeds a pressure of 160 pounds per square inch (1103 kPa), a volume of
764 120 gallons (454 L) or a heat input of 200,000 Btu per hour (58 kW).

765 SECTION 30. Ordinance 11923, Section 1, as amended, and K.C.C. 16.03.060
766 are hereby amended to read as follows:

767 Condominium: real property, including but not limited to residential buildings
768 and mobile home parks, portions of which are designated for separate ownership and the

769 remainder of which is designated for common ownership solely by the owners of those
770 portions. Real property is not a condominium unless the undivided interests in the
771 common elements are vested in the condominium unit owners and unless a declaration
772 and a survey map and plans have been recorded (~~(pursuant to)~~) in accordance with the
773 Horizontal Property Regimes Act(~~(, chapter 64.34 RCW,)~~) in chapter 64.32 RCW or the
774 Condominium Act(~~(,)~~) in chapter 64.34 RCW.

775 NEW SECTION. SECTION 31. There is hereby added to K.C.C. chapter 16.03
776 a new section to read as follows:

777 Water heater: any heating appliance or equipment that:

778 A. Heats potable water and supplies such water to the potable hot water
779 distribution system; and

780 B. Does not exceed a pressure of 160 pounds per square inch (1,103 kPa), a
781 volume of 120 gallons (454 L) and a heat input of 200,000 Btu per hour (58 kW).

782 SECTION 32. Ordinance 12560, Section 43, as amended, and K.C.C. 16.04.250
783 are hereby amended to read as follows:

784 Section (~~(501.2)~~) 502.1 of the International Building Code is not adopted and the
785 following is substituted:

786 **Premises identification (IBC (~~(501.2)~~) 502.1).** Approved numbers or addresses
787 shall be provided for all new buildings in such a position as to be plainly visible and
788 legible from the (~~(street or)~~) road fronting the property as specified in (~~(King County~~
789 ~~Code 16.08)~~) K.C.C. 16.08.050.

790 SECTION 33. Ordinance 14914, Section 133, as amended, and K.C.C. 16.04.260
791 are hereby amended to read as follows:

792 Section 503.1 of the International Building Code is supplemented with the
793 following:

794 **Portable classrooms – Fire hydrants and access (IBC ((503.1.4)) 503.1.5).** The
795 location of portable classrooms on a site with existing buildings shall be approved by the
796 ((F))fire ((M))marshal with respect to hydrant locations, access roads and available water
797 for fire fighting purposes.

798 SECTION 34. Ordinance 12560, Section 44, as amended, and K.C.C. 16.04.270
799 are hereby amended to read as follows:

800 Section 503.1 of the International Building Code is supplemented with the
801 following:

802 **Portable classrooms - Location (IBC ((503.1.5)) 503.1.6).** Portable classrooms
803 located within 60 feet of any permanent buildings shall be located with a minimum clear
804 space of 20 feet from any other portable classrooms and from the permanent buildings.

805 **EXCEPTIONS:**

806 1. Portable classrooms located in close proximity to each other, and more than 60
807 feet from permanent buildings, may be considered as portions of one building with no
808 minimum clearance or protection between them. The aggregate area of a cluster of
809 portable classrooms considered as one building must meet the area limits specified in
810 ((Section)) IBC 503.

811 2. Portable classrooms located more than 20 feet from ((main)) permanent
812 buildings with exterior wall protection that is continuous through the crawlspace or
813 skirted area may be located as follows:

814 2.1. When either of two portables has exterior wall protection rated for not less
815 than one hour, with no openings or openings that comply with the area limits of
816 ~~((Section))~~ IBC 705.8, the minimum clear space shall be 10 feet from any other portable.

817 2.2. When both of two portables have exterior wall protection rated for not less
818 than one hour with no openings, the minimum clear space shall be 5 feet from any other
819 portable.

820 3. Portable classrooms may be placed within 60 feet of any building ~~((provided~~
821 ~~that))~~ if the buildings comply with area limitations in ~~((Section))~~ IBC 503 as ~~((may be))~~
822 modified by ~~((Section))~~ IBC 506. Calculations substantiating compliance of existing and
823 proposed buildings with ~~((Section))~~ IBC 503 as modified by ~~((Section))~~ IBC 506 ~~((will))~~
824 shall be required as part of the permit application documents.

825 SECTION 35. Ordinance 12560, Section 45, as amended, and K.C.C. 16.04.290
826 are hereby amended to read as follows:

827 Section 901.1 of the International Building Code is not adopted and the following
828 is substituted:

829 **Scope (IBC 901.1).** ~~((This chapter specifies where f))~~ Fire protection and life
830 safety systems ~~((are required and applies to the design, installation and operation of fire~~
831 ~~protection systems))~~ shall comply with the International Fire Code as amended by K.C.C.
832 Title 17.

833 ~~((1. **ADDITIONAL REQUIREMENTS.**~~

834 ~~1.1. The Fire Marshal or designee retains the authority under section 903.2.13.1~~
835 ~~of the International Fire Code to impose additional conditions, including but not limited~~

836 to increased setbacks, use of fire retardant materials or standpipes where determined
837 necessary to mitigate identified fire protection impacts.

838 ~~1.2. This chapter applies to all buildings or structures whose county assessed
839 value has increased by more than 50% within a five year period due to the added value of
840 alterations and repairs. When the first permit application is submitted to alter or repair an
841 existing building, the county assessed value of the building at the time the complete
842 application is submitted shall be considered the base county assessed value for the
843 following five year period.~~

844 ~~1.3. Any additions to an existing building or structure shall be considered new
845 construction and subject the entire structure to the provisions of this chapter.~~

846 ~~1.4. All condominiums shall have the following wording in the recorded
847 Declaration of Covenants and a copy of the document shall be provided to the fire code
848 official or designee:~~

849 ~~1.4.1 In the event that any unit should be equipped with a sprinkler system,
850 nothing shall be hung from the sprinklers comprising a part of the system nor shall any
851 such sprinklers be painted, covered, or otherwise changed, tampered with or altered.~~

852 ~~1.4.2. Prior to any alteration, amendment, modification or change thereof, the
853 owners or their agents will submit such alteration, amendment, modification or change to
854 the fire marshal or designee for approval and agrees to comply with all applicable
855 sprinkler requirements.))~~

856 SECTION 36. Ordinance 14914, Section 141, and K.C.C. 16.04.300 are hereby
857 amended to read as follows:

858 Section 903.1 of the International Building Code is not adopted and the following
859 is substituted:

860 **General (IBC 903.1).** Automatic sprinkler systems shall comply with ~~((this~~
861 ~~section. For provisions for special hazards and hazardous materials, Section 901.4.3 of~~
862 ~~the International Fire Code applies))~~ the International Fire Code as amended by K.C.C.
863 Title 17.

864 SECTION 37. Ordinance 12560, Section 47, as amended, and K.C.C. 16.04.310
865 are hereby amended to read as follows:

866 Section 903.2 of the International Building Code is not adopted and the following
867 is substituted:

868 **Where required (IBC 903.2).** Sprinklers ~~((are required as follows:~~

869 ~~1. For residential units and their accessory structures built under the International~~
870 ~~Residential Code, sprinklers shall be installed in accordance with Section 903.2.13.~~

871 ~~2. For all other occupancies, an automatic sprinkler system shall be installed in~~
872 ~~locations in accordance with Sections 903.2.1 through 903.2.12.~~

873 **EXCEPTION:** ~~Spaces or areas in telecommunications buildings used~~
874 ~~exclusively for telecommunications equipment, associated electrical power distribution~~
875 ~~equipment, batteries and standby engines, provided those spaces or areas are equipped~~
876 ~~throughout with an automatic smoke detection system in accordance with Section 907.2~~
877 ~~and are separated from the remainder of the building by not less than 1-hour fire barriers~~
878 ~~constructed in accordance with Section 707 or not less than 2-hour horizontal assemblies~~
879 ~~constructed in accordance with Section 711, or both.~~

880 3. ~~Sprinklers are also required in occupancies requiring 2,000 gallons per minute~~
881 ~~or more fire flow, or where the total floor area included within the surrounding exterior~~
882 ~~walls on all floor levels including basements exceeds 10,000 square feet)) shall comply~~
883 ~~with the International Fire Code as amended by K.C.C. Title 17.~~

884 SECTION 38. Ordinance 14111, Section 55, as amended, and K.C.C. 16.04.330
885 are hereby amended to read as follows:

886 Section 903.2 of the International Building Code is supplemented with the
887 following:

888 **All occupancies (IBC 903.2.13).** An automatic sprinkler system shall be
889 installed in ~~((residential units and accessory structures built))~~ buildings constructed under
890 the International Residential Code ~~((as follows:~~

891 1. ~~If the gross floor area exceeds 2,500 square feet (including attached garages)~~
892 ~~without adequate fire flow except as cited in K.C.C. 17.08.030;~~

893 2. ~~If there is no approved fire department access as defined in the road standards~~
894 ~~of K.C.C. Title 14.~~

895 3. ~~If 2,000 gallons per minute or more fire flow is required, or where the total~~
896 ~~floor area included within the surrounding exterior walls on all floor levels including~~
897 ~~basements exceeds 10,000 square feet. For townhouses each unit is considered a separate~~
898 ~~building.~~

899 **EXCEPTIONS:** ~~Attached decks, exterior porches and carports open on two~~
900 ~~sides; or~~

901 4. ~~Where special hazards or unusual conditions exists in addition to the normal~~
902 ~~hazard of the space due to the design, size, volume or use of the space, the Fire Marshal~~

903 is authorized to require additional safeguards suitable for the protection of the hazard or
904 condition involved. Additional safeguards can consist of automatic fire alarm system,
905 automatic sprinkler or water spray system, standpipe and hose, fixed or portable fire
906 extinguishers, or other special fire extinguishing systems. Where such systems are
907 provided, they shall be designed and installed in accordance with the applicable
908 International Fire Code Standards) in accordance with the International Fire Code as
909 amended by K.C.C. Title 17.

910 SECTION 39. Ordinance 15802, Section 23, as amended, and K.C.C. 16.04.344
911 are hereby amended to read as follows:

912 Section ~~((1008.1.4))~~ 1010.1.4 of the International Building Code is not adopted
913 and following is substituted:

914 **Special Doors (IBC ~~((1008.1.4))~~ 1010.1.4)** Special doors and security grilles
915 shall comply with the requirements of ~~((sections 1008.1.4.1))~~ IBC 1010.1.4.1 through
916 ~~((1008.1.4.5))~~ 1010.1.4.6.

917 SECTION 40. Ordinance 15802, Section 24, as amended, and K.C.C. 16.04.346
918 are hereby amended to read as follows:

919 Section ~~((1008.1.4))~~ 1010.1.4 of the International Building Code is supplemented
920 with the following:

921 **Mini-storage facility storage room doors (IBC ~~((1008.1.4.5))~~ 1010.1.4.6).** The
922 access doors to storage rooms in mini-storage facilities shall meet the provisions of
923 ~~((1008.1.2))~~ IBC 1010.1.2 and ~~((1008.1.9))~~ 1010.1.9.

924 **EXCEPTION:** If the storage room has less than 300 square feet of floor area, the
925 access doors are not required to meet the provisions of ~~((1008.1.2))~~ IBC 1010.1.2 and
926 ~~((1008.1.9))~~ 1010.1.9 under the following circumstances:

927 1. If the facility has any storage room with 300 square feet or less of floor area, at
928 least one storage room shall comply with ~~((1008.1.2))~~ IBC 1010.1.2 and ~~((1008.1.9))~~
929 1010.1.9; and

930 2. For every 10 storage rooms with 300 square feet or less of floor area, the
931 facility has at least one additional storage room with a door that complies with
932 ~~((1008.1.2))~~ IBC 1010.1.2 and ~~((1008.1.9))~~ 1010.1.9.

933 SECTION 41. Ordinance 15802, Section 25, as amended, and K.C.C. 16.04.348
934 are hereby amended to read as follows:

935 Section ~~((4009))~~ 1011 of the International Building Code is supplemented with
936 the following:

937 **Stairways to mechanical rooms (IBC ~~((1009.18))~~ 1011.17).** Platforms and
938 rooms, used only to attend equipment, that are less than 300 square feet in area or have
939 less than 5 feet of headroom are exempted from the requirement of ~~((sections 1009.1 to~~
940 ~~1009.17))~~ IBC 1011.1 through 1011.16.

941 SECTION 42. Ordinance 14914, Section 155, as amended, and K.C.C. 16.04.360
942 are hereby amended to read as follows:

943 Section ~~((1203.3.2))~~ 1202.4.1 of the International Building Code ~~((is not adopted~~
944 ~~and the following is substituted))~~ is supplemented with the following:

945 Under Floor Ventilation – Exception((s)) (IBC ~~((1203.3.2))~~ 1202.4.1.3). The
946 following ~~((are))~~ exception((s)) applies to ~~((section 1203.3 and 1203.3.1))~~ IBC 1202.4:

947 ~~((1. Where warranted by climatic conditions, ventilation openings to the outdoors~~
948 ~~are not required if ventilation openings to the interior are provided.~~

949 ~~2. The total area of ventilation openings is permitted to be reduced to 1/1500 of~~
950 ~~the under floor area where the ground surface is treated with an approved vapor retarder~~
951 ~~material and the required openings are placed so as to provide cross ventilation of the~~
952 ~~space.~~

953 ~~3. Ventilation openings are not required where continuously operated~~
954 ~~mechanical ventilation is provided at a rate of one cubic foot per minute for each fifty~~
955 ~~square feet of crawl space floor area and the ground surface is covered with an approved~~
956 ~~vapor retarder.~~

957 ~~4.) Ventilation openings are not required when the ground surface is covered~~
958 ~~with an approved vapor retarder, the perimeter walls are insulated and the space is~~
959 ~~conditioned in accordance with the International Energy Conservation Code(;~~
960 ~~Commercial chapter 51-11C WAC and International Energy Conservation Code,~~
961 ~~Residential, chapter 51-11R WAC)).~~

962 SECTION 43. Ordinance 14914, Section 156, as amended, and K.C.C. 16.04.370
963 are hereby amended to read as follows:

964 Section ~~((1207))~~ 1206 of the International Building Code is supplemented with
965 the following:

966 ~~((Sea-Tac))~~ **Seattle-Tacoma sound reduction standards (IBC ((1207.4))**
967 **1206.4**. All buildings or structures constructed or placed in use for human occupancy on
968 sites in the vicinity of ~~((Sea-Tac))~~ Seattle-Tacoma International Airport ~~((which))~~ that
969 have been included within ~~((or enclosed by))~~ the Port of Seattle Noise Remedy ~~((Program~~

970 boundaries)) Boundary shall comply with the provisions in supplemental IBC Appendix
971 Z as adopted by King County.

972 SECTION 44. Ordinance 14914, Section 157, as amended, and K.C.C. 16.04.380
973 are hereby amended to read as follows:

974 Section ((1403.5)) 1402.6 of the International Building Code is not adopted and
975 the following is substituted:

976 **Performance requirements – Flood resistance (IBC ((1403.5)) 1402.6).** For
977 buildings in flood hazard areas as established in K.C.C. chapter 21A.24, exterior walls
978 extending below the base flood elevation shall comply with K.C.C. chapter 21A.24.

979 SECTION 45. Ordinance 14914, Section 158, as amended, and K.C.C. 16.04.390
980 are hereby amended to read as follows:

981 Section ((1403.6)) 1402.7 of the International Building Code is not adopted and
982 the following is substituted:

983 **Performance requirements – Flood resistance for coastal high-hazard areas**
984 **(IBC 1402.7).** Coastal high-hazard area standards shall be in accordance with K.C.C.
985 chapter 21A.24.

986 SECTION 46. Ordinance 14914, Section 159 and K.C.C. 16.04.400 are hereby
987 amended to read as follows:

988 Section ((1603.1.6)) 1603.1.7 of the International Building Code is not adopted.

989 SECTION 47. Ordinance 14914, Section 163, and K.C.C. 16.04.430 are hereby
990 amended to read as follows:

991 Section ((1612.4)) 1612.2 of the International Building Code is not adopted.

992 SECTION 48. Ordinance 14914, Section 164, as amended, and K.C.C. 16.04.440
993 are hereby amended to read as follows:

994 Section ~~((1612.5))~~ 1612.4 of the International Building Code is not adopted and
995 the following is substituted:

996 **Flood hazard documentation (IBC ~~((1612.5))~~ 1612.4).** For construction in
997 flood hazard areas the applicant shall provide actual as-built elevation ~~((certification))~~
998 certificate by a professional civil engineer or land surveyor licensed by the state of
999 Washington.

1000 SECTION 49. Ordinance 14914, Section 165, and K.C.C. 16.04.450 are hereby
1001 amended to read as follows:

1002 Section ~~((1803.4))~~ 1804.5 of the International Building Code is not adopted and
1003 the following is substituted:

1004 **Grading and fill in floodways (IBC ~~((1803.4))~~ 1804.5).** Excavation, grading
1005 and fill in floodways shall be in accordance with K.C.C. chapter 21A.24.

1006 SECTION 50. Ordinance 14914, Section 168, and K.C.C. 16.04.480 are hereby
1007 amended to read as follows:

1008 Section ~~((1807.1.2.1))~~ 1805.1.2.1 of the International Building Code is not
1009 adopted and the following is substituted:

1010 **Flood hazard areas (IBC ~~((1807.1.2.1))~~ 1805.1.2.1).** For buildings and
1011 structures in flood hazard areas as established in K.C.C. chapter 21A.24, ~~((the finished~~
1012 ~~ground level of an under floor space such as a crawl space shall be equal to or higher~~
1013 ~~than the outside finished grade level))~~ fully enclosed areas below the lowest floor and

1014 below the flood protection elevation, including crawl spaces and attached garages, shall
1015 be in accordance with K.C.C. chapter 21A.24.

1016 SECTION 51. Ordinance 12560, Section 54, as amended and K.C.C. 16.04.490
1017 are hereby amended to read as follows:

1018 Section 2902.1 of the International Building Code (~~(, as amended by chapter 51-~~
1019 ~~50-WAC,))~~) is not adopted and the following is substituted:

1020 **Minimum number of fixtures (IBC 2902.1).** The number of plumbing fixtures
1021 within a building shall not be less than (~~(set forth in Section))~~ what is required by IBC
1022 2902. Fixtures located within gender-neutral toilet and bathing rooms shall be included
1023 in determining the number of fixtures provided in an occupancy. The director (~~(of public~~
1024 ~~health))~~) is authorized to determine the number of plumbing fixtures within a building
1025 and to enforce this section.

1026 SECTION 52. Ordinance 12560, Section 67, as amended, and K.C.C. 16.04.550
1027 are hereby amended to read as follows:

1028 The International Building Code is supplemented (~~(by))~~ with the following
1029 appendix:

1030 **Purpose (IBC AZ 101).** The purpose of these sections is to safeguard life,
1031 health, property and public welfare by establishing minimum requirements regulating the
1032 design, construction, and(~~(/or setting on site))~~) siting of buildings for human occupancy
1033 (~~(in))~~ within the (~~(vicinity of Sea-Tac))~~ Seattle-Tacoma International Airport's (~~(as~~
1034 ~~identified on the maps referenced in the April 24, 1985 Federal Register, Volume 50, No.~~
1035 ~~79))~~ Noise Remedy Boundary as established by the Port of Seattle pursuant to the 2013

1036 Part 150 Noise Compatibility Study. These sections are not intended to abridge any
1037 safety or health requirements required under any other applicable codes or ordinances.

1038 SECTION 53. Ordinance 12560, Section 68, as amended, and K.C.C. 16.04.560
1039 are hereby amended to read as follows:

1040 The International Building Code is supplemented ~~((by))~~ with the following
1041 appendix:

1042 **Scope (IBC AZ 102).** The provisions of this ~~((chapter))~~ section shall apply to all
1043 buildings or structures constructed or placed ~~((in use))~~ for human occupancy on sites
1044 ~~((with))~~ in the vicinity of Seattle-Tacoma International Airport which ~~((have been~~
1045 ~~included))~~ are within ~~((or enclosed by))~~ the Port of Seattle Noise Remedy ~~((Program~~
1046 ~~boundaries))~~ Boundary;

1047 1. ~~((Structures r))~~ Relocated structures shall comply with all requirements of this
1048 chapter, and~~((r))~~

1049 2. Manufactured or mobile homes located in mobile home parks shall be exempt
1050 from these requirements.

1051 This chapter is intended to supplement the provisions of the International
1052 Residential Code, the International Mechanical Code, the Washington state Energy
1053 Code~~((r))~~ and the International Building Code. In the case of conflict between the chapter
1054 and any other applicable codes the more restrictive requirements shall be met.

1055 SECTION 54. Ordinance 12560, Section 74, as amended, and K.C.C. 16.04.620
1056 are hereby amended to read as follows:

1057 The International Building Code is supplemented ~~((by))~~ with the following
1058 appendix:

1059 ~~((Sea-Tac))~~ **Seattle-Tacoma noise program area (IBC AZ 108)**. ~~((Noise~~
1060 ~~determined))~~ Noise-determined construction requirements detailed in this chapter shall be
1061 applied to new construction and additions ~~((of all structures))~~ within the designated areas
1062 of the Port of Seattle's Noise Remedy Boundary, except for not-normally-inhabited
1063 portions of warehouses, storage buildings and similar structures as determined by the
1064 director~~((, within the designated program areas of the Port of Seattle's Noise Remedy~~
1065 ~~Program. The applicable program areas are the Neighborhood Reinforcement Area and~~
1066 ~~the Cost Share Insulation Area))~~. Specific construction requirements ~~((for these two~~
1067 ~~areas))~~ are:

1068 ~~((a) Neighborhood Reinforcement Area:~~

1069 1)) 1. Bedrooms ~~((must))~~ shall comply with IBC AZ 125 which is designed to
1070 achieve a noise reduction of 35 ~~((db))~~ dB.

1071 ~~((2))~~ 2. All other living and working areas ~~((must))~~ shall comply with IBC AZ
1072 117 which is designed to achieve a noise reduction level of 30 dB.

1073 ~~((b) Cost Share Insulations Area:~~

1074 1) ~~Bedrooms must comply with AZ 117 which is designed to achieve a noise~~
1075 ~~reduction of 30 dB.~~

1076 2) ~~All other living and working areas must comply with AZ 110 which is~~
1077 ~~designed to achieve a noise reduction level of 25 dB.)~~

1078 SECTION 55. Ordinance 12560, Section 89, as amended, and K.C.C. 16.04.770
1079 are hereby amended to read as follows:

1080 The International Building Code is supplemented ~~((by))~~ with the following
1081 appendix:

1082 **Floors 30 dB compliance (IBC AZ 123).** The floor of the lowest occupied
1083 rooms shall be slab on fill, below grade((~~z~~)) or over a fully enclosed basement or crawl
1084 space. All door and window openings in the fully enclosed basement shall be tightly
1085 fitted.

1086 **EXCEPTION:** Floors over fully enclosed garages or over carports shall have a
1087 laboratory sound transmission class rating of at least STC-35. The floor over the garage
1088 or carport shall be insulated to not less than R-19, but not less than that specified by the
1089 ((~~Washington state energy code~~)) International Energy Conservation Code and enclosed
1090 with one layer of 5/8" type 'X' GWB on the garage or carport side or any equivalent
1091 approved garage or dwelling separation assembly in conformance with ((~~IRC s~~))
1092 International Residential Code Section ((~~R309.2~~)) R302.6.

1093 SECTION 56. Ordinance 12560, Section 97, as amended, and K.C.C. 16.04.850
1094 are hereby amended to read as follows:

1095 The International Building Code is supplemented ((~~by~~)) with the following
1096 appendix:

1097 **Floors 35 dB compliance (IBC AZ 131).** The floor of the lowest occupied
1098 rooms shall be slab on fill or below grade or over a fully enclosed basement or crawl
1099 space. All door and window openings in the fully enclosed basement shall be tightly
1100 fitted.

1101 **EXCEPTION:** Floors over fully enclosed garages or over carports shall have a
1102 laboratory sound transmission class rating of at least STC-40. The floor over the garage
1103 or carport shall be insulated to not less than R-19, but not less than that specified by the
1104 ((~~Washington state energy code~~)) International Energy Conservation Code and enclosed

1105 with two layers of 5/8" type 'X' GWB on the garage or carport side or any equivalent
1106 approved garage/dwelling separation assembly in conformance with ~~((IRC-s))~~
1107 International Residential Code Section ((R309.2)) R302.6.

1108 SECTION 57. Ordinance 12380, Section 1, and K.C.C. 16.04.930 are hereby
1109 amended to read as follows:

1110 A. The purpose of this section is to establish standards for the location, review
1111 and installation of manufactured and mobile homes (and accessory structures) as well as
1112 factory-built commercial structures and coaches.

1113 B. These standards shall apply to all manufactured or mobile homes (and
1114 accessory structures) or factory-built commercial structures and coaches to be installed
1115 after August 4, 1996.

1116 SECTION 58. Ordinance 12380, Section 2, and K.C.C. 16.04.940 are hereby
1117 amended to read as follows:

1118 A manufactured or mobile home with an insignia of approval by the Washington
1119 ~~((S))~~state Department of Labor and Industries ~~((DLI))~~ (L&I) or the U.S. Department of
1120 Housing and Urban Development (HUD) may locate on any legal lot on which a dwelling
1121 unit is permitted by K.C.C. Title 21A and within any legally approved mobile home park.
1122 ~~((However, a))~~ A manufactured or mobile home without such insignia shall not be
1123 relocated to or within King County ~~((except as provided in K.C.C. 16.04.950.B))~~.

1124 SECTION 59. Ordinance 12380, Section 3, as amended, and K.C.C. 16.04.950
1125 are hereby amended to read as follows:

1126 All manufactured or mobile homes shall comply with the following requirements:

1127 ~~((A. "Insignia" Mobile Homes))~~ 1. Manufactured or ((M))mobile homes
1128 approved by ~~((DLI))~~ Washington state Department of Labor and Industries (L&I) or the
1129 U.S. Department of Housing and Urban Development (HUD) shall have the appropriate
1130 insignia indicating such approval affixed to the unit, in accordance with chapter 43.22
1131 RCW.

1132 ~~((B. "Noninsignia" Mobile Homes. Mobile homes without an insignia of~~
1133 ~~approval in accordance with subsection A of this section are subject to the following~~
1134 ~~provisions:~~

1135 ~~1. Mobile homes currently located within King County may remain in their~~
1136 ~~current location. However, prior to the relocation of such mobile home to another portion~~
1137 ~~of King County, the owner shall provide evidence that the mobile home was located~~
1138 ~~within King County before January 21, 1980. A "noninsignia" mobile home currently~~
1139 ~~located outside of King County may be relocated to King County only when subject to~~
1140 ~~forced relocation in accordance with RCW 59.21.105.~~

1141 ~~2. Prior to installing a noninsignia mobile home, the mobile home shall be~~
1142 ~~inspected and approved by the department. The inspection shall review consistency with~~
1143 ~~the following livability standards, but shall not be considered a warranty that the mobile~~
1144 ~~home is safe or livable:~~

1145 ~~a. the unit must have safe, operable heating facilities.~~

1146 ~~b. the unit must be equipped with a water closet, lavatory, bathtub or shower,~~
1147 ~~and kitchen sink; be provided with hot and cold running water; and all facilities shall be~~
1148 ~~installed and maintained in a safe and sanitary condition.~~

1149 ~~e. the structure must be weather protected so as to provide shelter for the~~
1150 ~~occupants against the elements and to exclude dampness.~~

1151 ~~d. all openable windows and doors must be in operable condition to provide~~
1152 ~~for adequate natural ventilation and emergency exit.~~

1153 ~~e. at least one operable smoke detector shall be installed within the unit.~~

1154 ~~f. the unit shall be structurally sound with no apparent unsafe condition in~~
1155 ~~floors, walls, ceilings and roofs.~~

1156 ~~g. the unit must be well maintained, free of debris and infestation of insects,~~
1157 ~~vermin or rodents.~~

1158 ~~C.)~~ 2. ~~((All mobile homes are subject to the following i))~~ Installation
1159 requirements:

1160 2.1. ~~((Support systems and stabilizing devices shall be designed and installed in~~
1161 ~~accordance with the provisions of WAC 296-150B-200))~~ Manufactured or mobile homes
1162 shall be installed consistent with chapter 296-150 WAC and in accordance with the
1163 manufacturers installation requirements as approved by Washington state Department of
1164 Labor and Industries (L&I).

1165 2.2. Electrical connections shall be inspected and approved by the Washington
1166 ~~((S))~~ state Department of Labor and Industries (L&I).

1167 2.3. Manufactured or mobile homes supported on piers shall be fully skirted.

1168 2.4. Manufactured or mobile homes located outside of a mobile home park shall
1169 be subject to the setback and lot coverage provisions of the zone in which the mobile
1170 home is located.

1171 ~~((D.))~~ 3. Accessory Structures.

1172 3.1. Accessory structures shall be subject to the provisions of the International
1173 Building Code or the International Residential Code, as applicable, as adopted in King
1174 County and a building permit shall be required before construction or installation.

1175 3.2. Separation between accessory structures and other structures shall be ~~((as~~
1176 ~~set forth))~~ in accordance with K.C.C. 21A.14.160 or K.C.C. 21A.14.170 ~~((or~~
1177 ~~21A.14.180))~~. However, if the accessory structure is a carport constructed of
1178 combustible materials, the carport roof area shall not extend over or otherwise cover any
1179 bedroom windows and no other accessory structures other than decks, porches, stairs or
1180 ramps shall be permitted under the carport roof area.

1181 SECTION 60. Ordinance 12380, Section 4, as amended, and K.C.C. 16.04.960
1182 are hereby amended to read as follows:

1183 ~~((A.))~~ 1. Installation of a manufactured or mobile home shall require ~~((the~~
1184 ~~approval of a mobile home))~~ a building permit by the department ~~((pursuant to))~~ in
1185 accordance with the permit process and procedures in K.C.C. chapter 16.02 and for type
1186 1 permits outlined in K.C.C. chapter 20.20. ~~((The permit shall expire one year after date~~
1187 ~~of issuance. A permit may be renewed for a maximum of one year upon request of the~~
1188 ~~applicant, provided such requests are made within fifteen days of the date of expiration of~~
1189 ~~the original permit. Mobile homes shall not be permanently occupied for more than~~
1190 ~~forty five days prior to issuance of a certificate of occupancy by the department.~~

1191 ~~B.))~~ 2. The following ~~((must))~~ shall be submitted with a ~~((n))~~ building permit
1192 application for a manufactured or mobile home ~~((permit, except that when the mobile~~
1193 ~~home is to be located in an approved mobile home park, subsection B.1.d., 1.e., 1.h., 1.i.~~
1194 ~~and 3 shall not apply:~~

- 1195 1. ~~Two copies of a site plan drawn to scale, showing:~~
1196 a. ~~north arrow and scale,~~
1197 b. ~~location and dimensions of all property lines or leased areas, and easements,~~
1198 c. ~~proposed location of mobile home and/or accessory structure(s) on the site~~
1199 ~~or space,~~
1200 d. ~~distances from the mobile home and accessory structure(s) to property lines,~~
1201 e. ~~approximate surface elevation at each corner of the site,~~
1202 f. ~~location of parking spaces,~~
1203 g. ~~name or number of street on which site or space is located,~~
1204 h. ~~location of septic tank and drainfield, if sewers are not available,~~
1205 i. ~~location of well or other water source, if public water supply is not~~
1206 ~~available;));~~
1207 2.1. A description of the manufactured or mobile home, including:
1208 a. model number,
1209 b. Washington ((S))state ((and/))or ((H.U.D.)) U.S. Department of Housing
1210 and Urban Development (HUD) ID number or both,
1211 c. name of manufacturer and year of manufacture;
1212 ((3.)) 2.2. Two copies of plans showing that the proposed foundation system, if
1213 more than one-fourth of the floor area of the manufactured or mobile home, as measured
1214 from the bottom of the main frame members, will be more than three feet above the
1215 existing ground level, or when any supporting piers exceed sixty inches in height;
1216 ((4.)) 2.3. A ((State Contractors or Mobile Home Dealers Registration Card, or
1217 photocopy of same and)) Certified Manufactured Home Installers number.

1218 ~~((C. An accessory structure in excess of 200 square feet of floor area including~~
1219 ~~roof overhang shall require the approval of a building permit by the department pursuant~~
1220 ~~to the permit process and procedures for type 1 permits outlined in K.C.C. chapter 20.20.~~
1221 ~~An application for a building permit for an accessory structure shall include site plans~~
1222 ~~drawn consistent with the provisions of subsection B.1. If an application for a building~~
1223 ~~permit for an accessory structure is submitted together with an application for a mobile~~
1224 ~~home permit and if the accessory structure is less than 600 square feet in area, the fee for~~
1225 ~~the accessory structure shall be waived.))~~

1226 SECTION 61. Ordinance 12380, Section 5, as amended, and K.C.C. 16.04.970
1227 are hereby amended to read as follows:

1228 ~~((A.))~~ 1. Factory-built commercial structures and coaches shall be located,
1229 installed and used in the same manner as conventional commercial structures, except to
1230 the extent that construction standards are regulated by the Washington ~~((S))~~ste
1231 Department of Labor and Industries or the U.S. Department of Housing and Urban
1232 Development.

1233 ~~((B.))~~ 2. Factory-built commercial structures and commercial coaches shall be
1234 installed subject to the following:

1235 2.1. A building permit ~~((must))~~ shall be obtained for any factory-built
1236 commercial structure or commercial coach ~~((pursuant to))~~ in accordance with the permit
1237 process and procedures for type 1 permits outlined in K.C.C. chapter 20.20.

1238 2.2. The following criteria must be satisfied for the permanent installation of a
1239 factory-built commercial structure or commercial coach before a building permit can be
1240 issued:

1241 a. The appropriate insignia of the Washington (~~(S)~~)state Department of Labor
1242 and Industries (~~(of)~~) or the U.S. Department of Housing and Urban Development (~~(must)~~)
1243 shall be affixed to the unit. If the unit is lacking the appropriate insignia, it must satisfy
1244 the structural, mechanical, electrical and plumbing requirements of the International
1245 Building, Mechanical and other applicable codes as adopted in King County for
1246 conventional commercial structures.

1247 b. The foundation, entry/exit stairs or ramps, and all accessory structures shall
1248 be designed and installed in accordance with the provisions of the International Building
1249 Code as adopted in King County.

1250 c. Occupancy of the structure shall not be permitted before inspection and
1251 approval.

1252 2.3. The temporary installation of factory-built commercial structures and
1253 commercial coaches may be permitted for a period not to exceed one year. The support
1254 system recommended by the manufacturer, or designed by a professional structural
1255 engineer registered by the state, may be substituted for a foundation designed in
1256 accordance with the provisions of the International Building Code as adopted in King
1257 County, subject to the approval of the department.

1258 2.4. Factory-built construction office trailers may be placed without an
1259 additional permit as long as the site is covered by a valid building permit.

1260 SECTION 62. Ordinance 7853, Section 1, as amended, and K.C.C. 16.04.980 are
1261 hereby amended to read as follows:

1262 (~~(A-)~~) 1. Authority. The director is authorized and directed to enforce the
1263 provisions of this chapter and any rules and regulations promulgated thereunder,

1264 ~~((pursuant to))~~ in accordance with the enforcement and penalty provisions of K.C.C. Title
1265 23.

1266 **EXCEPTION:** The director of ~~((the department of))~~ public health - Seattle &
1267 King County is authorized to enforce ~~((International Building Code Section 2902.1 and~~
1268 ~~Table 29-A chapter 51-50 WAC and))~~ the fuel gas piping requirements in the
1269 International Fuel Gas Code, WAC 51-52-0101 and Chapter 24 of the International
1270 Residential Code.

1271 ~~((B-))~~ 2. General. All construction or work for which a permit is required shall
1272 be subject to inspection by the director.

1273 ~~((C- Authority. The director is authorized and directed to enforce this chapter))~~

1274 3. Administration. The director is authorized to promulgate, adopt, maintain and
1275 issue ~~((those))~~ rules and regulations necessary to the effective and efficient administration
1276 of this chapter~~((, such rules and regulations to be adopted and maintained))~~ in accordance
1277 with the provisions for the rules of county agencies~~((;))~~ in K.C.C. chapter 2.98.

1278 ~~((D-))~~ 4. Plan Reviews and Inspections. All buildings constructed under ~~((the~~
1279 ~~provisions of))~~ this chapter are subject to a final inspection for compliance with this
1280 chapter. The director has the authority to establish rules and procedures for accepting at
1281 the director's option an affidavit of substantial compliance with this chapter in lieu of
1282 plan reviews ~~((and/))~~ or inspections.

1283 SECTION 63. Ordinance 14914, Section 272, as amended, and K.C.C. 16.05.040
1284 are hereby amended to read as follows:

1285 Table R301.2(1) of the International Residential Code is not adopted and the
1286 following is substituted:

1287

Table R301.2(1)

1288

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA FOR KING COUNTY

Ground snow load	Wind speed (mph)	Seismic design category	Subject to damage from				Winter design temp.	Ice-shield required	Flood hazards	Air freezing index	Mean annual temp.
			Weathering	Frost line depth	Termite	Decay					
Varies ₁	((85)) <u>110</u>	D1 or D2 ₍₍₂₎₎ ²	Moderate	12" < 1,000ft elev. ₍₍₂₎₎ ³	Slight to Mod.	Slight to Mod.	25	No	Varies ₄	100 to 250	50

1289

Footnotes:

1290

1. Snow loads shall be determined in accordance with King County public rules.

1291

The minimum roof design snow load shall be 25 pounds per square feet.

1292

2. Seismic design category shall be D1 for areas of unincorporated King County

1293

to the east of the Snoqualmie River as it traverses from the King County-Snohomish

1294

County line to the city limits of Snoqualmie, east of the ((town)) city of Snoqualmie, east

1295

of the Snoqualmie Parkway and the Echo Lake-Snoqualmie Cut-off SE as they run from

1296

the city limits of the ((town)) city of Snoqualmie to State ((Highway)) Route 18 and to

1297

the south or east of State ((Highway)) Route 18. All other portions of unincorporated

1298

King County shall be seismic design category D2.

1299

3. The frost line depth shall be considered to be 12 inches for sites up to an

1300

elevation of 1000 feet above sea level, 18 inches for sites ((greater)) more than 1000 feet

1301

and up to an elevation of 2000 feet above sea level or 24 inches for sites ((greater)) more

1302

than 2000 feet above sea level. Frost depth may be otherwise determined by specific site

1303

analysis, but shall not be less than 12 inches.

1304 4. Flood hazard within King County varies. See the flood hazard code provisions
1305 of K.C.C. chapter 21A.24.

1306 SECTION 64. Ordinance 15802, Section 78, and K.C.C. 16.05.065 are hereby
1307 amended to read as follows:

1308 Section (~~(R310.5)~~) R310.2.4 of the International Residential Code is not adopted
1309 and the following is substituted:

1310 **Emergency escape windows under decks and porches (IRC (~~(R310.5)~~)**
1311 **R310.2.4** Emergency escape windows are allowed to be installed under decks, porches,
1312 roof overhangs, awnings(~~(;)~~) or similar projections (~~((provided))~~) if the location allows the
1313 emergency escape window to be fully opened and provides a path not less than 36 inches
1314 (914mm) in height and not less than 36 inches (914 mm) in width with a maximum
1315 unobstructed travel length directly to a yard or court based on 3:1, length to height ratio
1316 or as approved by the building official. This distance shall be measured from the edge of
1317 the window or if served by a window well from the edge of that window well.

1318 **EXCEPTION:** When the vertical height is (~~((6'8"))~~) six feet and eight inches
1319 (2,032 mm) or (~~((greater))~~) more, the travel distance or length is unlimited.

1320 SECTION 65. Ordinance 14914, Section 275, as amended, and K.C.C. 16.05.070
1321 are hereby amended to read as follows:

1322 Section (~~(R324)~~) R322 of the International Residential Code is not adopted and
1323 the following is substituted:

1324 **Building planning – Flood-resistant construction (IRC (~~(R324)~~) R322).**
1325 Flood-resistant construction (~~((will))~~) shall comply with the flood hazard standards in
1326 K.C.C. chapter 21A.24.

1327 SECTION 66. Ordinance 14914, Section 276, as amended, and K.C.C. 16.05.080
1328 are hereby amended to read as follows:

1329 Chapter 3 of the International Residential Code is supplemented with the
1330 following:

1331 **Automatic fire sprinkler((s)) systems (IRC ((~~R325~~)) R313).** Automatic fire
1332 sprinklers shall be provided as required by International Fire Code Section 903.2(~~(.10.4~~
1333 ~~of the International Fire Code~~)).

1334 SECTION 67. Ordinance 12560, Section 74, as amended, and K.C.C. 16.05.130
1335 are hereby amended to read as follows:

1336 Appendix K of the International Residential Code is supplemented with the
1337 following:

1338 **Appendix K - Sound transmission - ((~~Sea-Tac~~)) Seattle-Tacoma noise**
1339 **program area (IRC ((~~AK101.1~~)) AK101.2).** All buildings or structures constructed or
1340 placed in use for human occupancy on sites ((~~with~~)) in the vicinity of Seattle-Tacoma
1341 International Airport that have been included within ((~~or enclosed by~~)) the Port of
1342 Seattle's Noise Remedy ((~~Program boundaries~~)) Boundary shall comply with the
1343 provisions in the International Building Code Appendix Z.

1344 SECTION 68. Sections 69 through 123 of this ordinance should constitute a new
1345 chapter in K.C.C. Title 16.

1346 NEW SECTION. SECTION 69. There is hereby added to the chapter established
1347 in section 68 of this ordinance a new section to read as follows:

1348 **Scope (IECC C101.2).** The International Energy Conservation Code (IECC)
1349 applies to commercial buildings and their building((s)) sites and associated systems and

1350 equipment unless the code states otherwise. References in this code to Group R shall
1351 include Group I-1, Condition 2 assisted living facilities licensed by Washington state
1352 under chapter 388-78A WAC and Group I-1, Condition 2 residential treatment facilities
1353 licensed by Washington state under chapter 246-337 WAC. Building areas that contain
1354 Group R sleeping units, regardless of the number of stories in height, are required to
1355 comply with the commercial sections of the ~~((energy code))~~ IECC.

1356 **EXCEPTION:** The provisions of this code do not apply to temporary growing
1357 structures used solely for the commercial production of horticultural plants such as
1358 ornamental plants, flowers, vegetables and fruits. A temporary growing structure is not
1359 considered a building for the purposes of this code. However, the installation of other
1360 than listed, portable mechanical equipment or listed, portable lighting fixtures is not
1361 allowed.

1362 NEW SECTION. SECTION 70. There is hereby added to the chapter established
1363 in section 68 of this ordinance a new section to read as follows:

1364 **Intent (IECC C101.3).** This code shall regulate the design and construction of
1365 buildings for the use and conservation of energy and the reduction of carbon emissions
1366 over the life of each building. This code is intended to provide flexibility to permit the
1367 use of innovative approaches and techniques to achieve this objective. This code is not
1368 intended to abridge safety, health or environmental requirements contained in other
1369 applicable codes or ordinances.

1370 NEW SECTION. SECTION 71. There is hereby added to the chapter established
1371 in section 68 of this ordinance a new section to read as follows:

1372 **International Energy Conservation Code definitions not adopted.** The
1373 following definitions in Section 202 of the International Energy Conservation Code are
1374 not adopted:

- 1375 A. Conditioned space;
- 1376 B. Continuous insulation; and
- 1377 C. Mass transfer deck slab edge.

1378 NEW SECTION. SECTION 72. There is hereby added to the chapter established
1379 in section 68 of this ordinance a new section to read as follows:

1380 The definitions in this section apply to this chapter and supplement the definitions
1381 contained in the IECC as adopted, amended and supplemented by this title. Where
1382 definitions in this section differ from the definitions in the International codes as
1383 amended and supplemented by K.C.C. chapter 16.03, the definitions in this section shall
1384 control.

- 1385 A. AAMA: the American Architectural Manufacturers Association.
- 1386 B. Affordable housing: buildings that:
 - 1387 1. Are owned by a public housing authority for the purpose of providing
1388 housing the restricts at least 51 percent of the units to be occupied by and affordable to
1389 households with incomes no more than 80 percent of area median income;
 - 1390 2. Are owned by a government agency or nonprofit organization and operated as
1391 a shelter, including temporary and emergency shelter facilities providing day and
1392 warming centers that do not provide overnight accommodation, for people receiving
1393 support services from county-recognized assistance programs for homelessness; or

- 1394 3. Are subject to a regulatory agreement, covenant or other legal instrument
1395 recorded on the property title for a minimum of 40 years that:
- 1396 a. Restricts at least 51 percent of the units to be occupied by and affordable to
1397 households with incomes no more than 80 percent of area median income; or
- 1398 b. Restricts initial and subsequent sales of at least 51 percent of the residential
1399 units to households with incomes no more than 80 percent of area median income.
- 1400 C. ASHRAE: the American Society of Heating, Refrigerating and Air-
1401 Conditioning Engineers.
- 1402 D. ASTM: the American Society for Testing and Materials.
- 1403 E. Automatic control device: a device capable of automatically turning electrical
1404 loads off and on without manual intervention.
- 1405 F. Btu: British thermal units.
- 1406 G. Conditioned space: an area, room or space enclosed within the building
1407 thermal envelope and that is directly or indirectly heated or cooled. Spaces are indirectly
1408 heated or cooled where they communicate through openings with conditioned spaces,
1409 where they are separated from conditioned spaces by uninsulated walls, floors or ceilings,
1410 or where they contain uninsulated ducts, piping or other sources of heating or cooling.
1411 Elevator shafts, stair enclosures, enclosed corridors connecting conditioned spaces and
1412 enclosed spaces through which conditioned air is transferred at a rate exceeding three air
1413 changes per hour are considered conditioned spaces for the purposes of the building
1414 thermal envelope requirements.
- 1415 H. Continuous insulation: insulating material that is continuous across all
1416 structural members without metal thermal bridges other than fasteners that have a total

1417 cross-sectional area not more than 0.04 percent (0.12 percent where all metal thermal
1418 bridges are stainless steel) of the envelope surface through which they penetrate, and
1419 service openings. It is installed on the interior or exterior or is integral to any opaque
1420 surface of the building envelope.

1421 I. Controlled receptacle: an electrical receptacle that is controlled by an
1422 automatic control device.

1423 J. CSA: the CSA group.

1424 K. DOAS: dedicated outdoor air system.

1425 L. Fossil fuel: a substance used to generate energy as defined in K.C.C.
1426 21A.06.532C.

1427 M. HPWH: heat pump water heater.

1428 N. HVAC: heating, ventilation and air conditioning.

1429 O. LLLC: luminaire-level lighting controls.

1430 P. LPD: lighting power density.

1431 Q. Mass transfer deck slab: a concrete slab designed to transfer structural load
1432 from the building perimeter wall or column line above, laterally to an offset wall or
1433 column line below, and which has conditioned or semi-heated space on the inside of the
1434 upper wall and exterior or unconditioned space on the outside of the upper wall, such as
1435 the transition from an above-grade structure to a below-grade structure or the transition
1436 from a tower to a podium. The area of the slab edge shall be defined as the thickness of
1437 the slab multiplied by the length of the edge condition. A cantilevered concrete balcony
1438 does not constitute a mass transfer deck slab.

1439 R. Multi-pass: a heat pump water heater control strategy requiring multiple
1440 passes of water through the heat pump to reach the final target storage water temperature.

1441 S. NAECA: the National Appliance Energy Conservation Act of 1987.

1442 T. NFRC: the National Fenestration Rating Council.

1443 U. Single-pass: a heat pump water heater control strategy using variable flow or
1444 variable capacity to deliver water from the heat pump at the final target storage water
1445 temperature in a single pass through the heat exchanger with variable incoming water
1446 temperatures.

1447 V. Solar zone: a clear area or areas reserved solely for current or future
1448 installation of photovoltaic or solar hot water systems.

1449 W. Temperature maintenance: the system used to maintain the temperature of
1450 the building domestic hot water delivery system, typically by circulation and reheating or
1451 by a heat trace system.

1452 X. TSPR: total system performance ratio.

1453 Y. VAV: variable air volume.

1454 NEW SECTION. SECTION 73. There is hereby added to the chapter established
1455 in section 68 of this ordinance a new section to read as follows:

1456 Section C402.1.3 of the International Energy Conservation Code is supplemented
1457 with the following:

1458 **Insulation Component R-value method – applications for Table C402.1.3**
1459 **(IECC C402.1.3.1).** Where the total area of through-wall mechanical equipment is more
1460 than 1 percent of the opaque above-grade wall area in IECC Table C402.1.3, use of the
1461 R-value method is not allowed. See IECC C402.1.4.2.

1462 NEW SECTION. SECTION 74. There is hereby added to the chapter established
 1463 in section 68 of this ordinance a new section to read as follows:

1464 Table C402.1.4 of the International Energy Conservation Code is not adopted and
 1465 the following is substituted:

1466 **TABLE C402.1.4**
 1467 **OPAQUE THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS,**
 1468 **U-FACTOR METHOD^{a, f}**

	CLIMATE ZONE 5 AND MARINE 4	
	All Other	Group R
Roofs		
Insulation entirely above deck	U-0.027	U-0.027
Metal buildings	U-0.027	U-0.027
Attic and other	U-0.021	U-0.021
Joist or single rafter	U-0.027	U-0.027
Walls, Above Grade		
Mass ^{a,b}	U-0.057	U-0.057
Mass transfer deck slab edge ^d	U-0.20	U-0.20
Slab penetrating thermal envelope wall ^h	U-0.10	U-0.10
Metal building ^b	U-0.052	U-0.052
Steel framed ^b	U-0.055	U-0.055
Wood framed and other ^b	U-0.051	U-0.051
Walls, Below Grade		
Below-grade wall ^g	U-0.070	U-0.070
Floors		
Mass ^c	U-0.031	U-0.031

Joist/framing	U-0.029 steel joist	U-0.029 steel joist
	U-0.025 wood joist	U-0.025 wood joist
Concrete column or wall penetrating thermal envelope floor ⁱ	U-0.55	U-0.55
Concrete slab floor directly above an electrical utility vault	N.R.	N.R.
Slab-on-Grade Floors		
Unheated slabs	F-0.54	F-0.54
Heated slabs ^c	F-0.55	F-0.55
Opaque Doors		
Swinging door	U-0.37	U-0.37
Nonswinging door	U-0.34	U-0.34
Garage door <14% glazing	U-0.31	U-0.31

1469 Footnotes:

1470 a. Use of opaque assembly U-factors, C-factors, and F-factors from IECC

1471 Appendix A is required unless otherwise allowed by IECC C402.1.4.

1472 b. Through-wall mechanical equipment subject to IECC C402.1.4.2 shall be
 1473 calculated at the U-factor defined in IECC C402.1.4.2. The area-weighted U-value of the
 1474 wall, including through-wall mechanical equipment, shall not exceed the value in the
 1475 table.

1476 c. Heated slab F-factors shall be determined specifically for heated slabs.

1477 Unheated slab factors shall not be used.

1478 d. A mass transfer deck, due to its configuration, is not insulated. The table value
 1479 (U-0.20) shall be used as the baseline value for component performance or total building
 1480 performance path calculations. For the proposed value, the appropriate value from the
 1481 top line of IECC Table A104.3.7.2 shall be used.

1482 e. "Mass floors" shall include floors weighing not less than:

1483 (1) 35 pounds per square foot of floor surface area; or

1484 (2) 25 pounds per square foot of floor surface area where the material weight is
1485 not more than 120 pounds per cubic foot.

1486 f. Opaque assembly U-factors based on designs tested in accordance with ASTM
1487 C1363 is allowed. The R-value of continuous insulation is allowed to be added or
1488 subtracted from the original test design.

1489 g. Peripheral edges of intermediate concrete floors are included in the above
1490 grade mass wall category and therefore must be insulated as above grade mass walls
1491 unless they meet the definition of a mass transfer deck slab edge. The area of the
1492 peripheral edges of concrete floors shall be defined as the thickness of the slab multiplied
1493 by the perimeter length of the edge condition. See IECC Table A103.3.7.2 for typical
1494 default U-factors for above grade slab edges and footnote c for typical conditions of
1495 above grade slab edges.

1496 h. Intermediate concrete floor slabs penetrating the building thermal envelope
1497 shall comply with IECC C402.2.9. The area of such penetrating concrete floor slabs shall
1498 be defined as the thickness of the slab multiplied by the length of the penetration. The
1499 "exposed concrete" row in IECC Table A103.3.7.2 shall be used for typical default U-
1500 factors for the penetrating concrete slab.

1501 i. Value applies to concrete columns and concrete walls that interrupt mass floor
1502 insulation, but not to perimeter walls or columns separating interior conditioned space
1503 from exterior space.

1504 NEW SECTION. SECTION 75. There is hereby added to the chapter established
1505 in section 68 of this ordinance a new section to read as follows:

1506 Section C402.1.4 of the International Energy Conservation Code is supplemented
1507 with the following:

1508 **Thermal resistance of mechanical equipment penetrations (IECC**
1509 **C402.1.4.2).** When the total area of penetrations from through-wall mechanical
1510 equipment or equipment listed in IECC Table C403.3.2(3) exceeds 1 percent of the
1511 opaque above-grade wall area, the mechanical equipment penetration area shall be
1512 calculated as a separate wall assembly with a default U-factor of 0.5. Mechanical system
1513 ducts and louvers, included those for supply, exhaust and relief, and for condenser air
1514 intake and outlet, are not considered to be mechanical equipment for the purposes of this
1515 section.

1516 **EXCEPTION:** Where mechanical equipment has been tested in accordance with
1517 approved testing standards, the mechanical equipment penetration area may be calculated
1518 as a separate wall assembly using the U-factor determined by such test.

1519 NEW SECTION. SECTION 76. There is hereby added to the chapter established
1520 in section 68 of this ordinance a new section to read as follows:

1521 Section C402.2 of the International Energy Conservation Code is supplemented
1522 with the following:

1523 **Above-grade exterior concrete slabs (IECC C402.2.9).** Above-grade concrete
1524 slabs that penetrate the building thermal envelope, including but not limited to decks and
1525 balconies, shall each include a minimum R-10 thermal break, aligned with the primary
1526 insulating layer in the adjoining wall assemblies. Stainless steel reinforcing bars may

1527 penetrate the thermal break; carbon steel reinforcing bars shall not penetrate the thermal
1528 break. If the total building performance path or the component performance alternative
1529 in IECC C402.1.5 is used and the thermal break required by this section is not provided
1530 where concrete slabs penetrate the building thermal envelope, the sectional area of the
1531 penetration shall be assigned the default U-factors from the "exposed concrete" row of
1532 IECC Table A103.3.7.2.

1533 **EXCEPTION:** Mass transfer deck slab edges.

1534 NEW SECTION. SECTION 77. There is hereby added to the chapter established
1535 in section 68 of this ordinance a new section to read as follows:

1536 Section C402.2 of the International Energy Conservation Code is supplemented
1537 with the following:

1538 **Vertical fenestration intersection with opaque walls (IECC C402.2.10).**

1539 Vertical fenestration shall comply with the following as applicable:

1540 1. Where wall assemblies include continuous insulation, the exterior glazing
1541 layer of vertical fenestration and any required thermal break in the frame shall each be
1542 aligned within 2 inches laterally of either face of the continuous insulation layer.

1543 2. Where wall assemblies do not include continuous insulation, the exterior
1544 glazing layer of vertical fenestration and any required thermal break in the frame shall
1545 each be aligned within the thickness of the wall insulation layer and not more than 2
1546 inches laterally from the exterior face of the outermost insulation layer.

1547 3. Where the exterior face of the vertical fenestration frame does not extend to
1548 the exterior face of the opaque wall rough opening, the exposed exterior portion of the

1549 rough opening shall be covered with either a material having an R-value not less than R-
1550 3, or with minimum 1.5-inch thickness wood.

1551 NEW SECTION. SECTION 78. There is hereby added to the chapter established
1552 in section 68 of this ordinance a new section to read as follows:

1553 Section C402.4 of the International Energy Conservation Code is not adopted and
1554 the following is substituted:

1555 **Fenestration – prescriptive (IECC C402.4).** Fenestration shall comply with
1556 IECC C402.4 through C402.4.4 and IECC Table C402.4. Daylight responsive controls
1557 shall comply with this section and IECC C405.2.4.

1558 **EXCEPTION:** For prescriptive envelope compliance, single-pane glazing is
1559 allowed for security purposes and for revolving doors, not to exceed one percent of the
1560 gross exterior wall area. Where IECC C402.1.5, component performance alternative, is
1561 used, the single glazing shall be included in the percentage of the total glazing area, U-
1562 factor and SHGC requirements.

1563 **Table C402.4**

1564 **Building Envelope Fenestration Maximum U-factor and SHGC Requirements**

CLIMATE ZONEs 5 AND MARINE 4	
U-factor for Class AW windows rated in accordance with AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products^a	
Fixed ^b U-factor	U-0.34
Operable ^c U-factor	U-0.36

<i>Entrance doors^d</i>		
U-factor	U-0.60	
U-factor for all other vertical fenestration		
Fixed U-factor	U-0.26	
Operable ^c U-factor	U-0.28	
SHGC for all vertical fenestration		
Orientation^{e,f}	SEW	N
PF < 0.2	0.38	0.51
0.2 ≤ PF < 0.5	0.46	0.56
PF ≥ 0.5	0.61	0.61
Skylights		
U-factor	U-0.45	
SHGC	0.32	

1565 Footnotes:

1566 a. U-factor and SHGC shall be rated in accordance with NFRC 100. This
 1567 category includes curtain wall, storefront, ribbon wall, window wall and similar site-
 1568 assembled systems. This category does not include punched-opening manufactured
 1569 windows except for "Class AW" windows as designated by AAMA.

1570 b. "Fixed" includes curtain wall, storefront, picture windows and other fixed
 1571 windows.

1572 c. "Operable" includes openable fenestration products other than "entrance
1573 doors."

1574 d. "Entrance door" includes glazed swinging entrance doors and glazed automatic
1575 sliding entrance doors. Other doors which are not entrance doors, including manually
1576 operated sliding glass doors, are considered "operable."

1577 e. "N" indicates vertical fenestration oriented within 30 degrees of true north.
1578 "SEW" indicates orientations other than "N."

1579 f. Fenestration that is entirely within the conditioned space or is between
1580 conditioned and other enclosed space is exempt from solar heat gain coefficient
1581 requirements and not included in the SHGC calculation.

1582 NEW SECTION. SECTION 79. There is hereby added to the chapter established
1583 in section 68 of this ordinance a new section to read as follows:

1584 Section C402.4.1.1.2 of the International Energy Conservation Code is not
1585 adopted and the following is substituted:

1586 **High-performance fenestration (IECC C402.4.1.1.2).** The following
1587 requirements shall be met:

1588 1. All vertical fenestration in the building shall comply with the following
1589 maximum U-factors:

1590 1.1. U-factor for Class AW windows rated in accordance with
1591 AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products
1592 (fixed) = 0.30.

1593 1.2. U-factor for Class AW windows rated in accordance with
1594 AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products
1595 (operable) = 0.36.

1596 1.3. Entrance doors = 0.60.

1597 1.4. U-factor for all other vertical fenestration, fixed = 0.22.

1598 1.5. U-factor for all other vertical fenestration, operable = 0.24.

1599 2. The SHGC of the vertical fenestration shall be no more than 0.90 times the
1600 maximum SHGC values listed in IECC Table C402.4.

1601 An area-weighted average may satisfy the U-factor requirement for each
1602 fenestration product category listed in subsection 1 of this section. Individual
1603 fenestration products from different fenestration product categories shall not be combined
1604 in calculating the area-weighted average U-factor.

1605 NEW SECTION. SECTION 80. There is hereby added to the chapter established
1606 in section 68 of this ordinance a new section to read as follows:

1607 Section C402.4.2.1 of the International Energy Conservation Code is not adopted
1608 and the following is substituted:

1609 **Lighting controls in daylight zones under skylights (IECC C402.4.2.1).**

1610 Where IECC 405.2.3.1 is cited in IECC 402.4.2, IECC 405.2.4 shall be used instead.

1611 Daylight responsive controls complying with IECC C405.2.4 shall be provided to control
1612 all electric lights within toplit zones.

1613 NEW SECTION. SECTION 81. There is hereby added to the chapter established
1614 in section 68 of this ordinance a new section to read as follows:

1615 Section C403.1.1 of the International Energy Conservation Code is supplemented
1616 with the following:

1617 **HVAC TSPR – medical office and residential applications (C403.1.1.1).**

1618 Systems serving medical offices, and the dwelling units and residential common areas
1619 within R-2 multifamily, shall comply with 403.1.1.

1620 **EXCEPTION:** Buildings or areas of medical office buildings that comply fully
1621 with ASHRAE Standard 170, including but not limited to surgical centers, or that are
1622 required by other applicable codes or standards to provide air handling units that operate
1623 24 hours per day, 7 days per week.

1624 NEW SECTION. SECTION 82. There is hereby added to the chapter established
1625 in section 68 of this ordinance a new section to read as follows:

1626 Section C403.1 of the International Energy Conservation Code is supplemented
1627 with the following:

1628 **Use of electric resistance and fossil fuel-fired HVAC heating equipment (IECC**
1629 **C403.1.4).** HVAC heating energy shall not be provided by electric resistance or fossil fuel
1630 combustion appliances. For the purposes of this section, electric resistance HVAC heating
1631 appliances include but are not limited to electric baseboard, electric resistance fan coil and
1632 VAV electric resistance terminal reheat units and electric resistance boilers. For the
1633 purposes of this section, fossil fuel combustion HVAC heating appliances include but are
1634 not limited to appliances burning natural gas, heating oil, propane or other fossil fuels.

1635 **EXCEPTIONS:**

1636 1. Pasteurization. Electric resistance heat controls are allowed to reset the supply
1637 water temperature of hydronic heating systems that serve service water heating heat

1638 exchangers during pasteurization cycles of the service hot water storage volume. The
1639 hydronic heating system supply water temperature shall be configured to be 145° F or
1640 lower during the pasteurization cycle.

1641 2. Low heating capacity. Buildings or areas of buildings, other than dwelling
1642 units or sleeping units, that meet the interior temperature requirements of International
1643 Building Code Chapter 12 with a total installed HVAC heating capacity no more than 8.5
1644 Btu/h (2.5 Watts) per square foot of conditioned space may be heated using electric
1645 resistance appliances. For the purposes of this exception, overhead or wall-mounted
1646 radiant heating panels installed in an unheated or semi-heated space, insulated in
1647 compliance with IECC C402.2.8 and controlled by occupancy sensing devices in
1648 compliance with IECC C403.11.1 shall not be part of the HVAC heating energy
1649 calculation.

1650 3. Dwelling or sleeping units. Dwelling or sleeping units having an installed
1651 HVAC heating capacity no more than 750 Watts in any separate habitable room with
1652 exterior fenestration may be heated using electric resistance appliances.

1653 3.1 Corner rooms. A room within a dwelling or sleeping unit that has two
1654 primary walls facing different cardinal directions, each with exterior fenestration, is
1655 permitted to have an installed HVAC heating capacity no more than 1000 watts. Bay
1656 windows and other minor offsets are not considered primary walls.

1657 4. Small buildings. Buildings with less than 2,500 square feet of conditioned floor
1658 area may be heated using electric resistance appliances.

1659 5. Defrost. Heat pumps may use electric resistance as the first stage of heating
1660 when a defrost cycle is required and is in operation.

1661 6. Air-to-air heat pumps. Buildings may use electric resistance auxiliary
1662 heating to supplement heat pump heating for air-to-air heat pumps with that meet the
1663 following conditions:

1664 6.1. Internal electric resistance heaters have controls that prevent supplemental
1665 heater operation when the heating load can be met by the heat pump alone during both
1666 steady-state operation and setback recovery.

1667 6.2. The heat pump controls are configured to use the compressor to provide
1668 heating down to an outdoor air temperature of 17° F or lower;

1669 6.3. The heat pump complies with the following:

1670 a. Controlled by a digital or electronic thermostat designed for heat pump use
1671 that energizes the supplemental heat only when the heat pump has insufficient capacity to
1672 maintain set point or to warm up the space at a sufficient rate;

1673 b. Controlled by a multistage space thermostat and an outdoor air thermostat
1674 wired to energize supplemental heat only on the last stage of the space thermostat and when
1675 outdoor air temperature is less than 32° F; or

1676 c. The minimum efficiency of the heat pump is regulated by NAECA, its rating
1677 meets the requirements shown in IECC Table C403.3.2(2), and its rating includes all usage
1678 of internal electric resistance heating.

1679 6.4 The heat pump rated heating capacity is sized to meet the heating load at an
1680 outdoor air temperature of 32° F or lower and has a rated heating capacity at 47° F no less
1681 than 2 times more than supplemental electric resistance heating capacity, or uses the
1682 smallest available factory-available internal electric resistance heater.

1683 7. Air-to-water heat pumps, up to 2,000 MBH. Buildings may use electric
1684 resistance auxiliary heating to supplement heat pump heating for hydronic heating
1685 systems that have air-to-water heat pump heating capacity no more than 2,000 kBtu/h at
1686 47° F, and that meet the following conditions:

1687 7.1. Controls for the auxiliary electric resistance heating are configured to lock
1688 out the supplemental heat when the outside air temperature is above 32° F, unless the hot
1689 water supply temperature setpoint to the building heat coils cannot be maintained for 20
1690 minutes;

1691 7.2. The heat pump controls are configured to use the compressor as the first stage
1692 of heating down to an outdoor temperature of 17° F or lower except during startup or
1693 defrost operation; and

1694 7.3. The heat pump rated heating capacity at 47° F is no less than 2 times more
1695 than supplemental electric resistance heating capacity.

1696 8. Air-to-water heat pumps, up to 3,000 MBH. Buildings may use electric
1697 resistance auxiliary heating to supplement heat pump heating for hydronic heating
1698 systems that have air-to-water heat pump heating capacity more than 2,000 kBtu/hr and
1699 no more than 3,000 kBtu/hr at 47° F, and that meet the following conditions:

1700 8.1. Controls for the auxiliary electric resistance heating are configured to lock
1701 out the supplemental heat when the outside air temperature is above 36° F, unless the hot
1702 water supply temperature setpoint to the building heat coils cannot be maintained for 20
1703 minutes;

1704 8.2. The heat pump controls are configured to use the compressor as the first stage
1705 of heating down to an outdoor temperature of 17° F or lower except during startup or
1706 defrost operation; and

1707 8.3. The heat pump rated heating capacity at 47° F is no less than 1.75 times more
1708 than supplemental electric resistance heating capacity.

1709 9. Air-to-water heat pumps, over 3,000 MBH. Buildings may use electric
1710 resistance auxiliary heating to supplement heat pump heating for hydronic heating
1711 systems that have air-to-water heat pump heating capacity more than 3,000 kBtu/h at
1712 47° F, and that meet the following conditions:

1713 9.1. Controls for the auxiliary electric resistance heating are configured to lock
1714 out the supplemental heat when the outside air temperature is above 40° F, unless the hot
1715 water supply temperature setpoint to the building heat coils cannot be maintained for 20
1716 minutes;

1717 9.2. The heat pump controls are configured to use the compressor as the first stage
1718 of heating down to an outdoor temperature of 17° F or lower except during startup or
1719 defrost operation; and

1720 9.3. The heat pump rated heating capacity at 47° F is no less than 2 times more
1721 than supplemental electric resistance heating capacity.

1722 10. Ground source heat pumps. Buildings may use electric resistance auxiliary
1723 heating to supplement heat pump heating for hydronic heating systems with ground source
1724 heat pump equipment that meets the following conditions:

1725 10.1. Controls for the auxiliary resistance heating are configured to lock out the
1726 supplemental heat when the outdoor air temperature is above 32° F, unless the hot water
1727 supply temperature setpoint to the building heat coils cannot be maintained for 20 minutes;

1728 10.2. The heat pump controls are configured to use the compressor as the first
1729 stage of heating down to an outdoor temperature of 17° F or lower; and

1730 10.3. The heat pump rated heating capacity at 32° F entering water conditions is
1731 no less than 2 times more than supplemental electric resistance heating capacity.

1732 11. Small systems. Buildings in which electric resistance or fossil fuel appliances,
1733 including decorative appliances, in total either provide less than 5 percent of the total
1734 building HVAC system heating capacity or serve less than 5 percent of the conditioned
1735 floor area.

1736 12. Specific conditions. Portions of buildings that require fossil fuel or electric
1737 resistance space heating for specific conditions approved by the code official for research,
1738 health care, process or other specific needs that cannot practicably be served by heat pump
1739 or other space heating systems. This does not constitute a blanket exception for any
1740 occupancy type.

1741 13. Kitchen exhaust. Make-up air for commercial kitchen exhaust systems
1742 required to be tempered by International Mechanical Code Section 508.1.1 may be heated
1743 using electric resistance appliances.

1744 14. District energy. Steam or hot water district energy systems that use fossil
1745 fuels as their primary source of heat energy, that serve multiple buildings, and that were
1746 already in existence before the effective date of this ordinance, including more energy-

1747 efficient upgrades to such existing systems, may serve as the primary heating energy
1748 source.

1749 15. Heat tape. Heat tape is allowed where it protects water-filled equipment and
1750 piping located outside of the building thermal envelope if it is configured and controlled to
1751 be automatically turned off when the outside air temperature is above 40° F.

1752 16. Temporary systems. Temporary electric resistance heating systems are allowed
1753 where serving future tenant spaces that are unfinished and unoccupied if the heating
1754 equipment is sized and controlled to achieve interior space temperatures no higher than 40°
1755 F.

1756 17. Emergency generators. Emergency generators are permitted to use fossil fuels.

1757 NEW SECTION. SECTION 83. There is hereby added to the chapter established
1758 in section 68 of this ordinance a new section to read as follows:

1759 Section C403.3.5.1 of the International Energy Conservation Code is not adopted
1760 and the following is substituted:

1761 **Energy recovery ventilation with DOAS (IECC C403.3.5.1).** The DOAS shall
1762 include energy recovery ventilation. The energy recovery system shall have a 60 percent
1763 enthalpy recovery effectiveness in accordance with IECC C403.7.6. For DOAS having a
1764 total fan system motor nameplate hp less than 5 hp, total combined fan power shall not
1765 exceed 1 W/cfm of outdoor air. For DOAS having a total fan system motor hp more than
1766 or equal to 5 hp, refer to fan power limitations of IECC C403.8.1. This fan power
1767 restriction applies to each dedicated outdoor air unit in the permitted project, but does not
1768 include the fan power associated with the zonal heating or cooling equipment or both.

1769 The airflow rate thresholds for energy recovery requirements in IECC Tables

1770 C403.7.6.1(1) and C403.7.6.1(2) do not apply.

1771 **EXCEPTIONS:**

1772 1. Occupied spaces with the following characteristics:

1773 1.1. complies with IECC C403.7.6;

1774 1.2. served by equipment less than 5,000 cfm;

1775 1.3. has an average occupant load 15 people or more per 1,000 square feet (93
1776 m²) of floor area (as established in International Mechanical Code Table 403.3.1.1);

1777 1.4. includes demand control ventilation configured to reduce outdoor air by at
1778 least 50 percent below design minimum ventilation rates when the actual occupancy of
1779 the space served by the system is less than the design occupancy; and

1780 1.5. is smaller than 650 square feet.

1781 2. Systems installed for the sole purpose of providing makeup air for systems
1782 exhausting toxic, flammable, paint or corrosive fumes or dust, dryer exhaust or
1783 commercial kitchen hoods used for collecting and removing grease vapors and smoke.

1784 3. The energy recovery systems for R-1 and R-2 occupancies are permitted to
1785 provide 60 percent minimum sensible heat recovery effectiveness in lieu of 60 percent
1786 enthalpy recovery effectiveness. The return/exhaust air stream temperature for heat
1787 recovery device selection shall be 70° F or as determined by an approved calculation
1788 procedure.

1789 NEW SECTION. SECTION 84. There is hereby added to the chapter established
1790 in section 68 of this ordinance a new section to read as follows:

1791 Section C403.4.1.1 of the International Energy Conservation Code is not adopted
1792 and the following is substituted:

1793 **Heat pump supplementary heat (IECC C403.4.1.1).** Heat pumps equipped
1794 with internal electric resistance heaters shall have controls that prevent supplemental
1795 heater operation when the heating load can be met by the heat pump alone during both
1796 steady-state operation and setback recovery. Supplemental heater operation is permitted
1797 during outdoor coil defrost cycles. Heat pumps equipped with supplementary heaters
1798 shall comply with all conditions of IECC C403.1.4.

1799 **EXCEPTION:** Heat pumps whose minimum efficiency is regulated by NAECA
1800 and whose ratings meet the requirements shown in IECC Table C403.3.2(2) and include
1801 all usage of internal electric resistance heating.

1802 NEW SECTION. SECTION 85. There is hereby added to the chapter established
1803 in section 68 of this ordinance a new section to read as follows:

1804 Section C403.7.1 of the International Energy Conservation Code is not adopted
1805 and the following is substituted:

1806 **Demand control ventilation (IECC C403.7.1).** Demand control ventilation
1807 (DCV) shall be provided for spaces larger than 500 square feet (46.5 m) and with an
1808 average occupant load of 15 people or more per 1,000 square feet (93 m²) of floor area,
1809 as established in International Mechanical Code Table 403.3.1.1, and served by systems
1810 with one or more of the following:

- 1811 1. An air-side economizer;
- 1812 2. Automatic modulating control of the outdoor air damper; or
- 1813 3. A design outdoor airflow more than 3,000 cfm (1,416 L/s).

1814 **EXCEPTIONS:**

1815 1. Systems with energy recovery complying with IECC C403.7.6.1 or IECC
1816 C403.3.5.1. This exception is not available for space types located within the
1817 "inclusions" column of Groups A-1 and A-3 occupancy classifications of IECC Table
1818 C403.3.5.

1819 2. Multiple-zone systems without direct digital control of individual zones
1820 communicating with a central control panel.

1821 3. Multiple-zone systems with a design outdoor airflow less than 750 cfm (354
1822 L/s).

1823 4. Spaces, including but not limited to dining areas, where more than 75 percent
1824 of the space design outdoor airflow is transfer air required for makeup air supplying an
1825 adjacent commercial kitchen.

1826 5. Ventilation provided only for process loads.

1827 6. Spaces with one of the following occupancy categories, as defined by the
1828 International Mechanical Code: correctional cells, daycare sickrooms, science labs,
1829 barbers, beauty and nail salons and bowling alley seating.

1830 7. Dormitory sleeping units.

1831 NEW SECTION. SECTION 86. There is hereby added to the chapter established
1832 in section 68 of this ordinance a new section to read as follows:

1833 Section C403.7.6 of the International Energy Conservation Code is not adopted
1834 and the following is substituted:

1835 **Energy recovery ventilation systems (IECC C403.7.6).** Any system with
1836 minimum outside air requirements at design conditions more than 5,000 cfm or any

1837 system where the system's supply airflow rate exceeds the value listed in IECC Tables
1838 C403.7.6(1) and C403.7.6(2), based on the climate zone and percentage of outdoor
1839 airflow rate at design conditions, shall include an energy recovery system. IECC Table
1840 C403.7.6(1) shall be used for all ventilation systems that operate less than 8,000 hours
1841 per year, and IECC Table C403.7.6(2) shall be used for all ventilation systems that
1842 operate 8,000 hours or more per year. The energy recovery system shall have the
1843 capability to provide a change in the enthalpy of the outdoor air supply of not less than 60
1844 percent of the difference between the outdoor air and return air enthalpies, at design
1845 conditions. Where an air economizer is required, the energy recovery system shall
1846 include a bypass of the energy recovery media for both the outdoor air and exhaust air or
1847 return air dampers and controls which permit operation of the air economizer as required
1848 by IECC C403.5. Where a single room or space is supplied by multiple units, the
1849 aggregate ventilation (cfm) of those units shall be used in applying this requirement. The
1850 return/exhaust air stream temperature for heat recovery device selection shall be 70° F
1851 (21° C) at 30 percent relative humidity, or as calculated by the registered design
1852 professional.

1853 **EXCEPTIONS:**

1854 1. The energy recovery systems for occupancy type I-2 hospitals, medical office
1855 buildings and buildings that primarily consist of technical laboratory spaces may provide
1856 a change of enthalpy of the outdoor air and return air of not less than 50 percent of the
1857 difference between the outdoor air and return air enthalpies, at design conditions. These
1858 occupancies may also use exception 3.

1859 2. The energy recovery systems for R-1 and R-2 occupancies shall have a 60
1860 percent minimum sensible heat recovery effectiveness, in lieu of 60 percent enthalpy
1861 recovery effectiveness. The return/exhaust air stream temperature for heat recovery
1862 device selection shall be 70° F (21° C), or as calculated by the registered design
1863 professional.

1864 3. An energy recovery ventilation system shall not be required under the
1865 following conditions:

1866 3.1. Where energy recovery systems are restricted by International Mechanical
1867 Code Section 514 to sensible energy, recovery shall comply with the following:

- 1868 a. Kitchen exhaust systems where they comply with IECC C403.7.7.1;
- 1869 b. Laboratory fume hood systems where they comply with Exception 2 of
1870 IECC C403.7.6; or
- 1871 c. Other sensible energy recovery systems with the capability to provide a
1872 change in dry bulb temperature of the outdoor air supply of not less than 50 percent of the
1873 difference between the outdoor air and the return air dry bulb temperatures, at design
1874 conditions.

1875 3.2. Laboratory fume hood systems that include at least one of the following
1876 features and also comply with IECC C403.7.7.2:

- 1877 a. Variable-air-volume hood exhaust and room supply systems capable of
1878 reducing exhaust and makeup air volume to 50 percent or less of design values; or
- 1879 b. Direct makeup (auxiliary) air supply equal to at least 75 percent of the
1880 exhaust rate, heated no warmer than 2° F (1.1° C) above room set point, cooled to no

1881 cooler than 3° F (1.7° C) below room set point, no humidification added and no
1882 simultaneous heating and cooling used for dehumidification control.

1883 3.3. Systems serving spaces that are heated to less than 60° F (15.5° C) and are
1884 not cooled.

1885 3.4. Where more than 60 percent of the outdoor air heating energy is provided
1886 from site-recovered energy.

1887 3.5. Systems exhausting toxic, flammable, paint or corrosive fumes or dust.

1888 3.6. Cooling energy recovery in Climate Zones 3C, 4C, 5B, 5C, 6B, 7 and 8.

1889 3.7. Systems requiring dehumidification that use energy recovery in series with
1890 the cooling coil.

1891 3.8. Multi-zone systems where the supply airflow rate is less than the values
1892 specified in IECC Tables C403.7.6(1) and C403.7.6(2) for the corresponding percent of
1893 outdoor air. Where a value of NR is listed, energy recovery shall not be required.

1894 3.9. Equipment which meets the requirements of IECC C403.9.2.4.

1895 3.10. Systems serving Group R-1 and R-3 dwelling or sleeping units where the
1896 largest source of air exhausted at a single location at the building exterior is less than 25
1897 percent of the design outdoor air flow rate.

1898 NEW SECTION. SECTION 87. There is hereby added to this chapter established
1899 in section 68 of this ordinance a new section to read as follows:

1900 Section C403.10 of the International Energy Conservation Code is not adopted
1901 and the following is substituted:

1902 **C403.10 Construction of HVAC system elements.** Ducts, plenums, piping and
1903 other elements that are part of an HVAC system shall be constructed and insulated in
1904 accordance with Sections C403.10.1 through C403.10.4.

1905 NEW SECTION. SECTION 88. There is hereby added to the chapter established
1906 in section 68 of this ordinance a new section to read as follows:

1907 Section C403.10 of the International Energy Conservation Code is supplemented
1908 with the following:

1909 **Insulation of refrigerant piping (C403.10.4).** Refrigerant piping, other than
1910 piping factory installed in HVAC equipment, shall have minimum 1/2-inch insulation
1911 within conditioned spaces and 1-inch insulation outside of conditioned spaces, at a
1912 conductivity rating of 0.21 to 0.26 Btu x in/(h x ft² x ° F) with a mean temperature rating
1913 of 75° F.

1914 NEW SECTION. SECTION 89. There is hereby added to the chapter established
1915 in section 68 of this ordinance a new section to read as follows:

1916 Section C403 of the International Energy Conservation Code is supplemented
1917 with the following:

1918 **Commercial food service (C403.14).** The following types of equipment within
1919 the scope of the applicable Energy Star program shall comply with the applicable energy-
1920 efficiency and water-efficiency criteria required to achieve the Energy Star label:

- 1921 1. Commercial fryers.
- 1922 2. Commercial hot food holding cabinets.
- 1923 3. Commercial steam cookers.
- 1924 4. Commercial dishwashers.

1925 NEW SECTION. SECTION 90. There is hereby added to the chapter established
1926 in section 68 of this ordinance a new section to read as follows:

1927 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code
1928 are not adopted and the following is substituted:

1929 **Service water heating system type (C404.2.1 and C404.2.2).** In buildings with
1930 central service water heating systems serving four or more Group R-1 or R-2 dwelling or
1931 sleeping units, and in any other building that has a heated water circulation system or a
1932 combined water heating capacity greater than 15 kW (51,195 Btu/h) under a single
1933 permit, the primary service water heating equipment shall not use fossil fuel combustion
1934 or electric resistance. Service hot water shall be provided by an air-source HPWH
1935 system meeting the requirements of this section, or a ground-source HPWH system.
1936 Supplemental service water heating equipment is permitted to use electric resistance in
1937 compliance with IECC C404.2.1.2 and C404.2.2.2.

1938 **EXCEPTIONS:**

1939 1. Unitary heat pump water heaters located in conditioned space are permitted
1940 where they are sized to meet all calculated service water heating demand using the heat
1941 pump compressor, and not supplementary heat.

1942 2. A service water heating system in a tenant space under a separate permit with a
1943 total heating capacity no greater than 15 kW (51,195 Btu/h) is permitted to be electric
1944 resistance.

1945 3. Point of use instantaneous electric water heaters serving fixtures no more than
1946 8 feet of developed pipe length from the water heater are permitted and do not contribute
1947 to the building combined water heating capacity calculation.

1948 4. Solar thermal, wastewater heat recovery, other approved waste heat recovery,
1949 water-source heat pump system utilizing waste heat or combinations thereof, are
1950 permitted to offset all or any portion of the required HPWH capacity where such systems
1951 comply with this code and the Plumbing Code.

1952 5. Systems meeting the requirements of the Northwest Energy Efficiency
1953 Alliance (NEEA) Advanced Water Heater Specifications for central service water heating
1954 systems.

1955 NEW SECTION. SECTION 91. There is hereby added to the chapter established
1956 in section 68 of this ordinance a new section to read as follows:

1957 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code
1958 are supplemented with the following:

1959 **System Design (C404.2.1.1 and C404.2.2.1).** The system proposed to meet
1960 IECC C404.2.1 and C404.2.2 shall conform to the following design requirements:

1961 1. Primary heat pump system sizing: The system shall include a primary service
1962 minimum output at 40° F outdoor air temperature that provides sufficient hot water for
1963 occupancy uses as calculated using the equipment manufacturer's selection criteria or
1964 another approved methodology. Air source heat pumps shall be sized to deliver no less
1965 than 50 percent of the calculated demand for hot water production during the peak
1966 demand period when entering air temperature is 24° F.

1967 **EXCEPTION.** 50 percent sizing at 24° F is not required for heat pumps located
1968 in a below-grade enclosed parking structure or other ventilated and unconditioned space
1969 that is not anticipated to fall below 40° F at any time.

1970 2. Primary hot water storage sizing. The system shall provide sufficient hot
1971 water, as calculated using an approved methodology, to satisfy peak demand period
1972 requirements.

1973 3. The service water heating system shall be configured to conform to the
1974 following:

1975 3.1. For single-pass HPWHs, temperature maintenance heating provided for
1976 reheating return water from the building's heated water circulation system shall be
1977 physically decoupled from the primary service water heating system storage tank(s) in a
1978 manner that prevents destratification of the primary system storage tanks. Temperature
1979 maintenance heating is permitted to be provided by electric resistance or a separate
1980 dedicated heat pump system; or

1981 3.2. For multi-pass HPWHs, recirculated temperature maintenance water is
1982 permitted to be returned to the primary water storage tanks for reheating.

1983 4. Mixing valve: A thermostatic mixing valve capable of supplying hot water to
1984 the building at the user temperature set point shall be provided, in compliance with
1985 requirements of the Uniform Plumbing Code and the HPWH manufacturer's installation
1986 guidelines. The mixing valve shall be sized and rated to deliver tempered water in a
1987 range from the minimum flow of the temperature maintenance recirculation system up to
1988 the maximum demand for the fixtures served.

1989 NEW SECTION. SECTION 92. There is hereby added to the chapter established
1990 in section 68 of this ordinance a new section to read as follows:

1991 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code
1992 are supplemented with the following:

1993 **Supplemental Water Heaters (C404.2.1.2 and C404.2.2.2).** Total
1994 supplemental electric resistance water heating equipment shall not have an output
1995 capacity more than the primary water heating equipment at 40° F entering air
1996 temperature. Supplemental electric resistance heating is permitted for the following uses:
1997 1. Temperature maintenance of heated-water circulation systems, physically
1998 separate from the primary service water heating system. Temperature maintenance
1999 heating capacity shall be no more than the primary water heating capacity at 40° F.
2000 2. Defrost of compressor coils.
2001 3. Heat tracing of piping for freeze protection or for temperature maintenance in
2002 lieu of recirculation of hot water.
2003 4. Backup or low ambient temperature conditions if:
2004 4.1. The supplemental heating capacity is no more than the primary service
2005 water heating capacity at 40° F;
2006 4.2. During normal operations the supplemental heating is controlled to operate
2007 only when the entering air temperature at the air-source HPWH is below 40° F, and the
2008 primary HPWH compressor continues to operate together with the supplemental heating
2009 when the entering air temperature is between 17° F and 40° F; and
2010 4.3. The primary water heating equipment cannot satisfy the system load due to
2011 equipment failure or entering air temperature below 40° F.
2012 5. Supplemental heating downstream from a multi-pass HPWH system.
2013 6. Stand-alone electric water heaters serving single zones not served by the
2014 central water heating system.

2015 NEW SECTION. SECTION 93. There is hereby added to the chapter established
2016 in section 68 of this ordinance a new section to read as follows:

2017 Section C404.6 of the International Energy Conservation Code is supplemented
2018 with the following:

2019 **Storage tank insulation(C404.6.1).** Unfired storage tanks used to store service
2020 hot water at temperatures above 130° F shall be wrapped with an insulating product,
2021 installed in accordance with the insulation manufacturer's instructions and providing a
2022 minimum of R-2 additional insulation for every 10° F increase in stored water
2023 temperature above 130° F. Such additional insulation is also permitted to be integral to
2024 the tank. The insulation is permitted to be discontinuous at structural supports.

2025 NEW SECTION. SECTION 4. There is hereby added to the chapter established
2026 in section 68 of this ordinance a new section to read as follows:

2027 Section C404.7.1.2 of the International Energy Conservation Code is
2028 supplemented with the following:

2029 **Multiple riser systems – thermostatic balancing valve (IECC C404.7.1.2.1).**
2030 For heated water circulation systems that have multiple risers and use a variable flow
2031 circulation pump, each riser shall have a self-actuating thermostatic balancing valve.

2032 NEW SECTION. SECTION 95. There is hereby added to the chapter established
2033 in section 68 of this ordinance a new section to read as follows:

2034 Section C404.7.1 of the International Energy Conservation Code is supplemented
2035 with the following:

2036 **Electronic thermostatic mixing valve (IECC C404.7.1.3).** Where a heated
2037 water circulation system uses an electronic thermostatic mixing valve (TMV) to control

2038 the temperature of hot water supplied to the building, the thermostatic mixing valve
2039 (TMV) shall be configured so that it either reverts closed to fully cold, or maintains its
2040 current valve position upon power failure or cessation of circulation flow.

2041 NEW SECTION. SECTION 96. There is hereby added to the chapter established
2042 in section 68 of this ordinance a new section to read as follows:

2043 Section C404.7.3 of the International Energy Conservation Code is supplemented
2044 with the following:

2045 **Pipe insulation (IECC C404.7.3.1).** For heated water circulation systems, both
2046 supply and return pipe insulation shall be at minimum one inch thicker than that required
2047 by IECC Table C403.10.3.

2048 **EXCEPTION:** Where piping is centered within a wall, ceiling or floor framing
2049 cavity with a depth at least four inches more than the diameter of the pipe and that is
2050 completely filled with batt or blown-in insulation, additional pipe insulation is not
2051 required.

2052 NEW SECTION. SECTION 97. There is hereby added to the chapter established
2053 in section 68 of this ordinance a new section to read as follows:

2054 Section C404.8 of the International Energy Conservation Code is not adopted and
2055 the following is substituted:

2056 **Demand recirculation controls (C404.8).** Demand recirculation water systems
2057 are not permitted.

2058 NEW SECTION. SECTION 98. There is hereby added to the chapter established
2059 in section 68 of this ordinance a new section to read as follows:

2060 Section C405.2 of the International Energy Conservation Code is not adopted and
2061 the following is substituted:

2062 **Lighting controls (IECC C405.2).** Lighting systems shall be provided with
2063 controls that comply with the following:

2064 1. Lighting controls as specified in IECC C405.2.1 through C405.2.7. Any
2065 contiguous open office area larger than 5,000 square feet shall have its general lighting
2066 controlled by:

2067 1.1. An enhanced digital lighting control system conforming to the requirements
2068 of IECC C406.4; or

2069 1.2. LLLC conforming to the requirements in subsection 2. of this section; or

2070 2. LLLC for all areas and lighting controls specified in IECC C405.2.1, C405.2.3
2071 and C405.2.5. The LLLC luminaires shall be independently configured to:

2072 2.1. Monitor occupant activity to brighten or dim lighting when occupied or
2073 unoccupied, respectively;

2074 2.2. Monitor ambient light, both electric and daylight, and brighten or dim
2075 artificial light to maintain desired light level. A maximum of 8 fixtures may be
2076 controlled together to maintain uniform light levels within a single daylight zone; and

2077 2.3. For each control strategy, be capable of configuration and re-configuration
2078 of performance parameters including bright and dim set points, timeouts, dimming fade
2079 rates, sensor sensitivity adjustments and wireless zoning configuration.

2080 **EXCEPTIONS:** Except for specific application controls required by IECC
2081 C405.2.5, lighting controls are not required for the following:

2082 1. Areas designated as security or emergency areas that are required to be
 2083 continuously lighted.

2084 2. Means of egress illumination serving the exit access that does not exceed 0.01
 2085 watts per square foot of building area.

2086 3. Emergency egress lighting that is normally off.

2087 4. Industrial or manufacturing process areas required for production and safety.

2088 NEW SECTION. SECTION 99. There is hereby added to the chapter established
 2089 in section 68 of this ordinance a new section to read as follows:

2090 Table C405.4.2(1) of the International Energy Conservation Code is not adopted
 2091 and the following is substituted:

Table C405.4.2(1)

Interior Lighting Power Allowances—Building Area Method

Building Area Type	LPD (w/ft ²)
Automotive facility	0.58
Convention center	0.58
Court house	0.71
Dining: Bar lounge/leisure	0.71
Dining: Cafeteria/fast food	0.65
Dining: Family	0.64
Dormitory ^{a,b}	0.41
Exercise center	0.60
Fire station ^a	0.49
Gymnasium	0.68

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Health care clinic	0.63
Hospital ^a	0.84
Hotel/motel ^{a,b}	0.50
Library	0.75
Manufacturing facility	0.74
Motion picture theater	0.40
Multifamily ^c	0.37
Museum	0.50
Office	0.58
Parking garage	0.13
Penitentiary	0.65
Performing arts theater	0.76
Police station	0.60
Post office	0.59
Religious building	0.60
Retail	0.76
School/university	0.63
Sports arena	0.54
Town hall	0.62
Transportation	0.45
Warehouse	0.36
Workshop	0.82

2094

Footnotes:

2095 a. Where sleeping units are excluded from lighting power calculations by
 2096 application of IECC R404.1, neither the area of the sleeping units nor the wattage of
 2097 lighting in the sleeping units shall be counted.

2098 b. Where dwelling units are excluded from lighting power calculations by
 2099 application of IECC R404.1, neither the area of the dwelling units nor the wattage of
 2100 lighting in the dwelling units shall be counted.

2101 c. Dwelling units are excluded. Neither the area of the dwelling units nor the
 2102 wattage of lighting in the dwelling units shall be counted.

2103 NEW SECTION. SECTION 100. There is hereby added to the chapter
 2104 established in section 68 of this ordinance a new section to read as follows:

2105 Table C405.4.2(2) of the International Energy Conservation Code is not adopted
 2106 and the following is substituted:

Table C405.4.2(2)

Interior Lighting Power Allowances—Space-by-Space Method

Common Space-by-Space Types ^a	LPD (w/ft ²)
Atrium - Less than 20 feet in height	0.35
Atrium - 20 to 40 feet in height	0.43
Atrium - Above 40 feet in height	0.54
Audience/seating area - Permanent	
In an auditorium	0.55
In a gymnasium	0.21
In a motion picture theater	0.24
In a penitentiary	0.67
In a performing arts theater	1.04

Ordinance

In a religious building	0.65
In a sports arena	0.30
Otherwise	0.21
Banking activity area	0.55
Breakroom (see Lounge/breakroom)	
Classroom/lecture hall/training room	
In a penitentiary	0.89
Otherwise ^m	0.64
Computer room, data center	0.85
Conference/meeting/multipurpose	0.87
Confinement cell	0.63
Copy/print room	0.28
Corridor	
In a facility for the visually impaired (and not used primarily by the staff) ^b	0.71
In a hospital	0.71
In a manufacturing facility	0.37
Otherwise ^{c,f}	0.37
Courtroom ^c	1.08
Dining area	
In a penitentiary	0.42
In a facility for the visually impaired (and not used primarily by the staff) ^b	1.27
In a bar/lounge or leisure dining ⁿ	0.77
In cafeteria or fast food dining	0.36
In a family dining area ⁿ	0.54
Otherwise	0.39

Ordinance

Electrical/mechanical	0.39
Emergency vehicle garage	0.47
Food preparation	0.98
Guest room ^{a,b}	0.37
Laboratory	
In or as a classroom	1.00
Otherwise	1.20
Laundry/washing area	0.48
Loading dock, interior	0.79
Lobby ^c	
In a facility for the visually impaired (and not used primarily by the staff) ^b	1.69
For an elevator	0.59
In a hotel	0.46
In a motion picture theater	0.21
In a performing arts theater	1.13
Otherwise	0.76
Locker room	0.47
Lounge /breakroom ⁿ	
In a health care facility	0.42
Otherwise	0.53
Office	
Enclosed \leq 250	0.67
Enclosed \geq 250	0.59
Open plan	0.55
Parking area, interior	0.14
Pharmacy area	1.66

Restroom	
In a facility for the visually impaired (and not used primarily by the staff) ^b	1.26
Otherwise ^a	0.57
Sales area	0.95
Seating area, general	0.21
Stairwell ^a	0.44
Storage room	
< 50 ft ²	0.46
50-100 ft ²	0.34
All of the storage ^b	0.34
Vehicular maintenance	0.54
Workshop	1.13

2109

Building Specific Space-by-Space Types^a

Building Specific Space-by-Space Types^a	LPD^d (w/ft²)
Automotive - (See Vehicular maintenance, above)	
Convention center - Exhibit space	0.55
Dormitory living quarters ^{a,b}	0.45
Facility for the visually impaired ^b	
In a chapel (and not used primarily by the staff) ^b	0.70
In a recreation room (and not used primarily by the staff) ^b	1.77
Fire stations - Sleeping quarters ^e	0.21
Gymnasium/fitness center	
In an exercise area	0.83

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In a playing area	0.77
Health care facility	
In an exam/treatment room	1.40
In an imaging room	0.94
In a medical supply room	0.62
In a nursery	0.92
In a nurse's station	1.17
In an operating room	2.26
In a patient room ^e	0.68
In a physical therapy room	0.91
In a recovery room	1.25
Library ^f	
In a reading area ⁿ	0.86
In the stacks	0.99
Manufacturing facility	
In a detailed manufacturing area	0.72
In an equipment room	0.68
In an extra high bay area (more than 50-foot floor-to-ceiling height)	1.28
In a high bay area (25 - 50-foot floor-to-ceiling height)	1.12
In a low bay area (< 25-foot floor-to-ceiling height)	0.77
Museum	
In a general exhibition area	0.28
In a restoration room	0.99
Performing arts theater dressing/fitting room	0.37
Post office - Sorting area	0.69

Religious building	
In a fellowship hall ⁿ	0.49
In a worship pulpit/choir area ⁿ	0.77
Retail	
In a dressing/fitting room	0.46
In a mall concourse	0.74
Sports arena—Playing area	
For a Class 1 facility ⁱ	2.94
For a Class 2 facility ^j	2.01
For a Class 3 facility ^k	1.30
For a Class 4 facility ^l	0.86
Transportation	
In a baggage/carousel area	0.35
In an airport concourse	0.23
At a terminal ticket counter ⁿ	0.46
Warehouse—Storage area	
For medium to bulky palletized items	0.30
For smaller, hand-carried items	0.62

2110 For SI: 1 foot = 304.8 mm, 1 watt per square foot = 11 W/m².

2111 Footnotes:

2112 a. If both a common space type and a building area specific space type are listed,
2113 the building area specific space type shall apply.

2114 b. A facility for the visually impaired is a facility that is licensed or will be
2115 licensed by local or state authorities for senior long-term care, adult daycare, senior
2116 support or people with special visual needs.

2117 c. For spaces in which lighting is specified to be installed in addition to, and
2118 controlled separately from, the general lighting for the purpose of highlighting art or
2119 exhibits if the additional lighting power shall not exceed 0.5 W/ft^2 of such spaces.

2120 d. For scientific laboratories, additional lighting power allowance of 0.35 W/ft^2
2121 for specialized task work - lighting that provides for small-scale, cognitive or fast
2122 performance visual tasks, lighting required for operating specialized equipment
2123 associated with pharmaceutical or laboratorial activities or both.

2124 e. For offices, additional lighting power allowance of 0.20 W/ft^2 for portable
2125 lighting, which includes under shelf or furniture-mounted supplemental task lighting
2126 qualifies when controlled by a time clock or an occupancy sensor.

2127 f. For corridors, additional lighting power allowance of 0.25 W/ft^2 display
2128 lighting and decorative lighting where provided for aesthetic purposes. Decorative
2129 lighting fixtures in corridors may also provide general lighting. This additional
2130 allowance is not permitted to be used together with the allowance in footnote c for
2131 highlighting art or exhibits.

2132 g. Where sleeping units are excluded from lighting power calculations by
2133 application of IECC R404.1, neither the area of the sleeping units nor the wattage of
2134 lighting in the sleeping units shall be counted.

2135 h. Where dwelling units are excluded from lighting power calculations by
2136 application of IECC R404.1, neither the area of the dwelling units nor the wattage of
2137 lighting in the dwelling units shall be counted.

2138 i. Class I facilities consist of professional facilities; and semiprofessional,
2139 collegiate or club facilities with seating for 5,000 or more spectators.

2140 j. Class II facilities consist of collegiate and semiprofessional facilities with
2141 seating for fewer than 5,000 spectators; club facilities with seating between 2,000 and
2142 5,000 spectators; and amateur league and high school facilities with seating for more than
2143 2,000 spectators.

2144 k. Class III facilities consist of club, amateur league and high school facilities
2145 with seating for 2,000 or fewer spectators.

2146 l. Class IV facilities consist of elementary school and recreational facilities; and
2147 amateur league and high school facilities without provisions for spectators.

2148 m. For classrooms, additional lighting power allowance of 4.50 W/lineal foot of
2149 white or chalk boards for directional lighting dedicated to white or chalk boards.

2150 n. Additional lighting power allowance of 0.30 W/ft² for ornamental lighting.
2151 Qualifying ornamental lighting includes luminaires such as chandeliers, sconces, lanterns,
2152 neon and cold cathode, light emitting diodes, theatrical projectors, moving lights and
2153 light color panels when any of those lights are used in a decorative manner that does not
2154 serve as display lighting or general lighting. Ornamental lighting shall be controlled
2155 separately from general lighting.

2156 NEW SECTION. SECTION 101. There is hereby added to the chapter
2157 established in section 68 of this ordinance a new section to read as follows:

2158 Section C405.5.3 of the International Energy Conservation Code is supplemented
2159 with the following:

2160 **Exterior lighting power allowance – covered parking garages (IECC**
2161 **C405.5.3.2).** Covered parking garage lighting is not considered exterior lighting for the
2162 purposes of this calculation.

2163 NEW SECTION. SECTION 102. There is hereby added to the chapter
2164 established in section 68 of this ordinance a new section to read as follows:

2165 Section C405.7 of the International Energy Conservation Code is supplemented
2166 with the following:

2167 **Electric receptacles at dwelling unit gas appliances (C405.7.1).** Where
2168 dwelling unit appliances are served by natural gas, an electrical receptacle and circuit
2169 shall be provided at each gas appliance with sufficient capacity to serve a future electric
2170 appliance in the same location. The receptacle for each gas appliance shall be located
2171 within 12 inches of the appliance and without obstructions between the appliance and the
2172 outlet. The receptacles and circuits shall be included in the electrical service load
2173 calculation and shall meet the following requirements:

2174 1. Each gas range, cooktop or oven location shall be served by a dedicated
2175 240/208-voltage, 40-amperage receptacle connected to the dwelling unit electric panel
2176 with a 3-conductor branch circuit and a minimum included load of 9,600 volt-amps (VA)
2177 for 240-voltage systems or 8,000 VA for 208-voltage systems.

2178 2. Each gas clothes dryer location shall be served by a dedicated 240/208-
2179 voltage, 30-amperage receptacle connected to the dwelling unit electric panel with a 3-
2180 conductor branch circuit and a minimum included load of 5,000 volt-amps (VA).

2181 3. Each gas domestic water heater location shall be served by a dedicated
2182 240/208 voltage, 30-amperage outlet connected to the dwelling unit electrical panel with
2183 a 3-conductor branch circuit and a minimum included load of 4,500 volt-amps (VA).

2184 **EXCEPTION:** An electric receptacle is not required for a gas fireplace.

Ordinance

	Group R-1	Group R-2	Group B	Group E	Group M	All Other
	Additional Efficiency Credits					
1. More efficient HVAC performance in accordance with IECC C406.2	2.0	3.0	3.0	2.0	1.0	2.0
2. Reduced lighting power: Option 1 in accordance with IECC C406.3.1	1.0	1.0	2.0	2.0	3.0	2.0
3. Reduced lighting power: Option 2 in accordance with IECC C406.3.2 ^a	2.0	3.0	4.0	4.0	6.0	4.0
4. Enhanced lighting controls in accordance with IECC C406.4	NA	NA	1.0	1.0	1.0	1.0
5. On-site supply of renewable energy in accordance with IECC C406.5	3.0	3.0	3.0	3.0	3.0	3.0
5.1. 1/3 of renewable energy required by IECC C406.5	1.0	1.0	1.0	1.0	1.0	1.0
5.2. 2/3 of renewable energy required by IECC C406.5	2.0	2.0	2.0	2.0	2.0	2.0
6. Dedicated outdoor air system in accordance with IECC C406.6 ^b	4.0	2.0 ^d	4.0	NA	NA	4.0
7. High performance dedicated outdoor air system in accordance with IECC C406.7	4.0	4.0	4.0	4.0	4.0	4.0
8. High-efficiency service water heating in accordance with IECC C406.8.1 and C406.8.2	NA	NA	NA	NA	NA	NA
9. High performance service water heating in accordance with IECC C406.9	5.0	5.0	3.0 ^f	NA	NA	3.0 ^e
10. Enhanced envelope performance in accordance with IECC C406.10 ^c	3.0	6.0	3.0	3.0	3.0	4.0

11. Reduced air infiltration in accordance with IECC C406.11 ^c	1.0	2.0	1.0	1.0	1.0	1.0
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2206 Footnotes:

2207 a. Projects using this option may not use Item 2. of IECC Table C406.1.

2208 b. This option is not available to buildings subject to the prescriptive
 2209 requirements of IECC C403.3.5 or C403.6.

2210 c. Buildings or building areas that are exempt from thermal envelope
 2211 requirements in accordance with IECC C402.1.1 and C402.1.2 do not qualify for this
 2212 package.

2213 d. 4.0 credits, instead of 2.0 credits, may be applied to areas of R-2 occupancy
 2214 buildings other than dwelling units, including corridors, lobbies and tenant amenity
 2215 spaces, where those areas comply with the requirements for this credit.

2216 e. Buildings, building additions, building area, occupancy type or tenant spaces
 2217 with a service hot water load of 10 percent or more of total building energy loads, as
 2218 demonstrated through an energy analysis complying with IECC C407, or a minimum
 2219 service water energy use of 15,000 Btu per square foot per year, as demonstrated through
 2220 an alternate service hot water load calculation method approved by the code official, are
 2221 permitted to apply this credit.

2222 f. In Group B occupancies, the high-performance service water heating credit
 2223 applies only to research and production laboratory spaces, and adjacent circulation
 2224 serving those laboratory spaces, but not to associated office or other space uses.

2225 NEW SECTION. SECTION 104. There is hereby added to the chapter
 2226 established in section 68 of this ordinance a new section to read as follows:

2227 Section C406.1.1 of the International Energy Conservation Code is not adopted
2228 and the following is substituted:

2229 **Tenant spaces (IECC 406.1.1).** Initial tenant improvements shall comply with
2230 IECC C406.1.1.1, C406.1.1.2 and sufficient packages from IECC Table C406.1 to
2231 achieve a minimum number of 8 credits when the space is fully built out. In buildings
2232 with multiple tenant spaces, each tenant space may apply for different packages if all
2233 areas in the building comply with the requirement for eight credits when the space is fully
2234 built-out. This provision only applies to the initial build-out of a tenant space. For the
2235 purposes of this section, tenant space means any conditioned area within a new building
2236 that is constructed for first occupancy under a separate permit from the shell and core
2237 permits.

2238 NEW SECTION. SECTION 105. There is hereby added to the chapter
2239 established in section 68 of this ordinance a new section to read as follows:

2240 Section C406.2 of the International Energy Conservation Code is not adopted and
2241 the following is substituted:

2242 **More efficient HVAC equipment and fan performance (C406.2).** No less than
2243 90 percent of the total HVAC capacity serving the total conditioned floor area of the
2244 entire building, building addition, building area, occupancy type or tenant space in
2245 accordance with IECC C406.1.1, shall comply with IECC C406.2.1 through C406.2.3. In
2246 addition, systems required to comply with IECC C403.1.1 shall exceed the HVAC TSPR
2247 of the standard reference design by 10 percent. This credit shall not be used for low
2248 energy or semi-heated space conditioning categories.

2249 NEW SECTION. SECTION 106. There is hereby added to the chapter
2250 established in section 68 of this ordinance a new section to read as follows:

2251 Section C406.2.1 of the International Energy Conservation Code is not adopted
2252 and the following is substituted:

2253 **HVAC system selection (IECC C406.2.1).** Equipment installed shall be types
2254 that are listed in IECC Tables C403.3.2(1) through C403.3.2(12) or a combination
2255 thereof. Electric resistance heating shall not meet this requirement. No HVAC systems
2256 incorporating fossil fuel-fired equipment, or heat from district energy systems that are
2257 primarily heated by fossil fuel combustion, shall use this credit.

2258 NEW SECTION. SECTION 107. There is hereby added to the chapter
2259 established in section 68 of this ordinance a new section to read as follows:

2260 Section C406.4 of the International Energy Conservation Code is not adopted and
2261 the following is substituted:

2262 **Enhanced digital lighting controls (IECC C406.4).** Not less than 90 percent of
2263 the total installed interior lighting power within the whole building, building addition or
2264 tenant space shall comply with IECC C406.4.1. Open office areas subject to IECC
2265 C405.2(1) shall not take credit for this option. Lighting control functions shall comply
2266 with IECC C406.1, with control functions commissioned in accordance with IECC
2267 C408.1 and C408.3.

2268 NEW SECTION. SECTION 108. There is hereby added to the chapter
2269 established in section 68 of this ordinance a new section to read as follows:

2270 Section C406.5 of the International Energy Conservation Code is not adopted and
2271 the following is substituted:

2272 **On-site renewable energy (IECC C406.5).** In addition to the renewable energy
2273 required by IECC C412 and to renewable energy used to comply with any other
2274 requirement of this code, a whole building, building addition, building area or tenant
2275 space shall be provided with on-site renewable energy systems with a rated peak
2276 renewable energy generating capacity of no less than 0.25 watts (or 0.85 Btu/h) per
2277 square foot of conditioned floor area based on the total conditioned floor area of the
2278 whole building, building addition, building area or tenant space. The on-site renewable
2279 energy provided to comply with this option shall be separate from on-site renewable
2280 energy provided to comply with IECC C406.8 or other requirements of this code, or used
2281 to qualify for any exception in this code.

2282 NEW SECTION. SECTION 109. There is hereby added to the chapter
2283 established in section 68 of this ordinance a new section to read as follows:

2284 Section C406.6 of the International Energy Conservation Code is supplemented
2285 with the following:

2286 **Dedicated outdoor air system (DOAS) – No fossil fuel-fired HVAC may use**
2287 **this credit (IECC C406.6.1).** HVAC systems incorporating fossil fuel-fired equipment,
2288 or heat from district energy systems that are primarily heated by fossil fuel combustion,
2289 shall not use this credit.

2290 NEW SECTION. SECTION 110. There is hereby added to the chapter
2291 established in section 68 of this ordinance a new section to read as follows:

2292 Section C406.7 of the International Energy Conservation Code is supplemented
2293 with the following:

2294 **High performance dedicated outdoor air system (DOAS) – No fossil fuel-**
2295 **fired HVAC may use this credit (IECC C406.7.1).** HVAC systems incorporating fossil
2296 fuel-fired equipment, or heat from district energy systems that are primarily heated by
2297 fossil fuel combustion, shall not use this credit.

2298 NEW SECTION. SECTION 111. There is hereby added to the chapter
2299 established in section 68 of this ordinance a new section to read as follows:

2300 Section C406.8 of the International Energy Conservation Code is not adopted, and
2301 the following is substituted:

2302 **Reduced energy use in service water heating (IECC C406.8).** Buildings with
2303 service hot water heating equipment that serves the whole building, building addition or
2304 tenant space shall comply with IECC C406.8.1 and C406.8.2. Service water heating
2305 systems incorporating fossil fuel-fired equipment, or heat from district energy systems
2306 that are primarily heated by fossil fuel combustion, shall not use this credit. On-site
2307 renewable energy water-heating systems proposed for this credit shall only qualify where
2308 those systems are in addition to the renewable energy required by IECC C412 and any
2309 renewable energy used to comply with other requirements of this code.

2310 NEW SECTION. SECTION 112. There is hereby added to the chapter
2311 established in section 68 of this ordinance a new section to read as follows:

2312 Section C406.9 of the International Energy Conservation Code is not adopted, and
2313 the following is substituted:

2314 **High performance service water heating in hotel and multifamily buildings.**
2315 **(IECC C406.9).** For a whole building, building area, occupancy type, building addition
2316 or tenant space with not less than 90 percent of the conditioned floor area being Group R-

2317 1 or R-2 occupancy, not less than 90 percent of the annual building service hot water
2318 energy use shall be provided by a heat pump system meeting the requirements of IECC
2319 C404.2.3 and:

2320 1. The refrigerant used in the heat pump system shall have a global warming
2321 potential (GWP) no more than 675.

2322 2. Electric resistance heating capacity shall not be provided, except for:

2323 2.1. Circulating system temperature maintenance and heat tracing of service hot
2324 water supply and return piping; or

2325 2.2. On-demand electric resistance water heaters for hand washing facilities are
2326 allowed in public toilet rooms.

2327 NEW SECTION. SECTION 113. There is hereby added to the chapter
2328 established in section 68 of this ordinance a new section to read as follows:

2329 Section C406.10 of the International Energy Conservation Code is not adopted,
2330 and the following is substituted:

2331 **Enhanced envelope performance. (IECC C406.10).** The Proposed Total UA of
2332 the thermal envelope of the whole building, building area, occupancy type or building
2333 addition shall be 15 percent lower than the Allowable Total UA for an area of identical
2334 configuration and fenestration area in accordance with IECC C402.1.5 and Equation 4-2.

2335 NEW SECTION. SECTION 114. There is hereby added to the chapter
2336 established in section 68 of this ordinance a new section to read as follows:

2337 Section C406.12 of the International Energy Conservation Code is not adopted.

2338 NEW SECTION. SECTION 115. There is hereby added to the chapter
2339 established in section 68 of this ordinance a new section to read as follows:

2340 Section C407.3 of the International Energy Conservation Code is not adopted and
2341 the following is substituted:

2342 **Performance-based compliance (IECC C407.3).** Compliance with this section
2343 requires compliance with ASHRAE Standard 90.1 Appendix G, Performance Rating
2344 Method, in accordance with ASHRAE Standard 90.1 Section 4.2.1 with the following
2345 modifications:

2346 1. The mandatory requirements of ASHRAE Standard 90.1 Section G1.2.1a are
2347 not required to be met.

2348 2. The reduction in annual carbon emissions of the proposed building design
2349 associated with on-site renewable energy shall not be more than 3 percent of the total
2350 carbon emissions of the baseline building design. This limitation only applies to on-site
2351 renewable energy provided in excess of the renewable energy required by IECC C412.

2352 2.1. The equation $PCI + [(PBP_{nre} - PBP)/BBP] - 0.05 < PCI$ in ASHRAE 90.1
2353 Section 4.2.1.1 shall be modified to read $PCI + [(PBP_{nre} - PBP)/BBP] - 0.03 < PCI$.

2354 2.2. "PBP_{nre}" means the proposed building performance without credit for
2355 reduced annual energy emissions from on-site renewable energy generation system
2356 capacity in excess of that installed to satisfy the requirements of IECC C412.

2357 3. References to energy cost in ASHRAE Standard 90.1 Section 4.2.1.1 and
2358 ASHRAE Standard 90.1 Appendix G shall be replaced by carbon emissions calculated by
2359 multiplying site energy consumption by the carbon emission factor from IECC Table
2360 C407.3(1).

2361 4. The building performance factors in ASHRAE Standard 90.1 Table C4.2.1.1
2362 shall be replaced with those in IECC Table C407.3(2).

2363 5. Schedules and plug and process loads shall be modeled using the default
2364 values listed in IECC Appendix B or in the ASHRAE Standard 90.1 User's Manual and
2365 shall be assumed to be identical in the proposed design and baseline building design.

2366 **EXCEPTION:** Alternative schedules and plug and process loads shall be
2367 permitted where approved by the code official.

2368 6. ASHRAE Standard 90.1 Section G1.3.2.d documentation requirements shall
2369 be replaced by a list showing compliance with the mandatory provisions of IECC Table
2370 C407.2.

2371 7. ASHRAE Standard 90.1 Section G1.3.2.e documentation requirements shall be
2372 replaced by a list of proposed design aspects that are less stringent than the prescriptive
2373 requirements of the IECC.

2374 8. References to undesigned future building components in the Proposed
2375 Building Performance column of ASHRAE Standard 90.1 Table G3.1 shall be modified
2376 to reference the corresponding IECC sections in lieu of ASHRAE Standard 90.1
2377 requirements, in the following ASHRAE Standard 90.1 table sections:

2378 8.1. Table G3.1.1.c.

2379 8.2. Table G3.1.6.c.

2380 8.3. Table G3.1.11.c.

2381 8.4. Table G3.1.12.b.

2382 9. HVAC systems, subclauses c and d of ASHRAE Standard 90.1 Table G3.1,
2383 shall meet the following requirements:

2384 9.1. For yet-to-be-designed systems in office, retail, library, education and
2385 multifamily buildings and occupancies subject to the TSPR requirements of IECC

2386 C403.1.1, the system type and efficiency parameters shall meet but not exceed those
2387 shown in IECC Appendix D, Table D602.11 Standard Reference Design HVAC Systems.

2388 9.2. For all other buildings and occupancies, the system type shall be the same
2389 as the system modeled in the baseline design and shall comply with, but not exceed,
2390 IECC C403 requirements in lieu of ASHRAE Standard 90.1.

2391 9.3. For HVAC systems serving future tenant spaces, where the current building
2392 permit applies to only a portion of an HVAC system, and future components will receive
2393 HVAC services from systems included in the current building permit, those future
2394 components shall be modeled as the type required to complete the HVAC system
2395 portions under the current permit and shall meet, but not exceed, IECC C403
2396 requirements.

2397 NEW SECTION. SECTION 116. There is hereby added to the chapter
2398 established in section 68 of this ordinance a new section to read as follows:

2399 Section C407.3.1 of the International Energy Conservation Code is not adopted
2400 and the following is substituted:

2401 **Limits on substandard building envelopes (IECC C407.3.1).** The Proposed
2402 Total UA of the proposed building shall be no more than 10 percent higher than the
2403 Allowed Total UA as defined in IECC C402.1.5. Where either IECC C402.4.1.1.1 or
2404 C402.4.1.1.2 is used to establish the maximum allowable fenestration area for
2405 compliance with this section, all of the requirements of the selected section shall be met.

2406 NEW SECTION. SECTION 117. There is hereby added to the chapter
2407 established in section 68 of this ordinance a new section to read as follows:

2408 Table C407.3(2) of the International Energy Conservation Code is not adopted
 2409 and the following is substituted:

2410 **Table C407.3(2)**

2411 **Building Performance Factors (BPF) to be used for Compliance with Section C407.3**

Building Area Type	Building Performance Factor
Multifamily	0.52
Healthcare/hospital	0.49
Hotel/motel	0.58
Office	0.51
Restaurant	0.63
Retail	0.43
School	0.32
Warehouse	0.43
All others	0.49

2412 NEW SECTION. SECTION 118. There is hereby added to the chapter
 2413 established in section 68 of this ordinance a new section to read as follows:

2414 Section C411.1 of the International Energy Conservation Code is not adopted and
 2415 the following is substituted:

2416 **Solar readiness – general (IECC C411.1).** In addition to the requirements of
 2417 IECC C412, a solar zone shall be provided on buildings that are 20 stories or less in
 2418 height above grade plane. The solar zone shall be located on the roof of the building or
 2419 on another structure elsewhere on the site. The solar zone shall be in accordance with
 2420 IECC C411.2 through C411.8 and the International Fire Code.

2421 **EXCEPTION:** A solar zone is not required where the solar exposure of the
 2422 building's roof area is less than 75 percent of that of an unshaded area, as defined in

2423 IECC C411.5, in the same location, as measured by the following:

2424 1. Incident solar radiation expressed in kWh/ft²-yr using typical meteorological

2425 year (TMY) data;

2426 2. Annual sunlight exposure expressed in cumulative hours per year using typical

2427 meteorological year (TMY) data; or

2428 3. Shadow studies indicating that the roof area is more than 25 percent in

2429 shadow, on September 21 at 10 a.m., 11 a.m., 12 p.m., 1 p.m. and 2 p.m. solar time.

2430 NEW SECTION. SECTION 119. There is hereby added to the chapter

2431 established in section 68 of this ordinance a new section to read as follows:

2432 Section C411.2 of the International Energy Conservation Code is supplemented

2433 with the following:

2434 **Minimum area – mechanical equipment (C411.2.1).** When calculating the
2435 minimum area of the solar zone as a percentage roof area, areas that will be occupied by
2436 mechanical equipment shall be subtracted from the horizontally-projected gross roof area.

2437 NEW SECTION. SECTION 120. There is hereby added to the chapter

2438 established in section 68 of this ordinance a new section to read as follows:

2439 Section C411.8 of the International Energy Conservation Code is supplemented

2440 with the following:

2441 **Photovoltaic interconnection – roof penetration (IECC C411.8.1).** A
2442 minimum 2-inch diameter roof penetration sleeve shall be provided, with threaded caps
2443 above and below the roof deck and minimum R-10 insulation wrapping the lower portion,
2444 within each 2,500 square foot section of the required solar zone area.

2445 NEW SECTION. SECTION 121. There is hereby added to the chapter

2446 established in section 68 of this ordinance a new section to read as follows:

2447 Chapter 4 of the International Energy Conservation Code is supplemented with
2448 the following:

2449 **On-site renewable energy generation systems (IECC C412.1).** Any new
2450 building and any addition larger than 5,000 square feet of gross conditioned floor area
2451 shall include on-site a renewable energy generation system consisting of not less than
2452 0.25 watts rated peak photovoltaic energy production per square foot of conditioned
2453 space.

2454 **EXCEPTIONS:**

2455 1. Increased additional energy credits. Where 3.0 additional energy credits from
2456 IECC Table C406.1 are provided in addition to those required by other sections of this
2457 code, the on-site renewable energy generation system is not required.

2458 1.1. Where 1.0 additional energy credits is provided in addition to those
2459 required by other sections of this code, applicants may reduce the size of the on-site
2460 renewable energy generation system by 1/3.

2461 1.2. Where 2.0 additional energy credits are provided in addition to those
2462 required by other sections of this code, applicants may reduce the size of the on-site
2463 renewable energy generation system by 2/3.

2464 1.3 Where approved by the building code official, interpolation between
2465 exceptions 1, 1.1 and 1.2 is permitted.

2466 2. Reduced building performance factor. For projects utilizing the IECC C407
2467 Total Building Performance compliance path, the on-site renewable energy generation
2468 system is not required where the building performance factor (BPF) is at least than 3

2469 percent lower than the maximum building performance factor (BPF) permitted
2470 cumulatively by all other sections of the IECC.

2471 2.1. Where the building performance factor (BPF) is not less than 1 percent
2472 lower than the building performance factor (BPF) required cumulatively by other sections
2473 of the IECC, the size of the on-site renewable energy generation system may be reduced
2474 by 1/3.

2475 2.2. Where the building performance factor (BPF) is not less than 2 percent
2476 lower than the building performance factor (BPF) required cumulatively by other sections
2477 of the IECC, the size of the on-site renewable energy generation system may be reduced
2478 by 2/3.

2479 3. Transfer to an affordable housing project. The department may waive all or
2480 part of the required on-site renewable energy generation system if the applicant
2481 constructs a renewable energy generation system on an affordable housing project in
2482 unincorporated King County.

2483 3.1. The size of the system built on the affordable housing project shall be:

2484 3.1.1. 50 percent of the size of the system not being built on site if located on
2485 an existing affordable housing project; or

2486 3.1.2. 75 percent of the size of the system not being built on site if located on a
2487 new construction affordable housing project.

2488 3.2. Documentation demonstrating that the renewable energy generation system
2489 has been installed on the affordable housing project site, the system is fully operational,
2490 and ownership has been transferred to the owner of the affordable housing project, shall
2491 be submitted before issuance of the certificate of occupancy.

2492 3.3. Such a transfer shall only be available if an affordable housing project is
2493 available to accept the renewable energy system. There is no assurance that such a project
2494 location will be available. It is the applicant's responsibility to locate and coordinate with
2495 the affordable housing project, and to ensure installation is completed in a timely manner.

2496 4. Transfer to a Washington state agency program. Where approved by the
2497 department, all or part of the required renewable energy generation system may be
2498 replaced by a contribution of \$2.50 for each required watt of installed capacity to a solar
2499 energy fund managed by a Washington state agency that will provide solar energy
2500 installations for affordable housing projects. Documentation demonstrating that the
2501 contribution has been received by the state agency shall be submitted before issuance of
2502 the certificate of occupancy.

2503 4.1. Such a transfer shall only be available if a solar energy fund for affordable
2504 housing is created by the Housing Trust Fund, Washington state Housing Finance
2505 Commission, or another state agency program for which the project is qualified to
2506 participate. There is no assurance that such a program will be available.

2507 5. The building official may approve an alternative method to meet this
2508 requirement if the applicant's engineer or architect can demonstrate, to the satisfaction of
2509 the building official, that the alternative method will provide equal or greater solar
2510 performance as required by this section.

2511 6. Affordable housing. The on-site renewable energy generation system is not
2512 required for affordable housing projects.

2513 NEW SECTION. SECTION 122. There is hereby added to the chapter
2514 established in section 68 of this ordinance a new section to read as follows:

2515 Section 503.4 of the International Energy Conservation Code is supplemented
2516 with the following:

2517 **New and replacement HVAC heating system equipment (IECC C503.4.6).**

2518 For a substantial improvement as defined in K.C.C. chapter 21A.06, or where a building's
2519 central HVAC heating system equipment is augmented or replaced, the building shall
2520 comply with IECC C403.1.4. For the purposes of this section, central HVAC heating
2521 system means a heating system that provides heating to multiple spaces or multiple
2522 dwelling or sleeping units, as opposed to a distributed heating system such as baseboard
2523 heating or a Packaged Terminal Heat Pump (PTHP) that provides heating to only a single
2524 space. A central heating system may include multiple pieces of heating equipment.

2525 **EXCEPTION:** HVAC replacements:

- 2526 1. Where only one heating appliance is failing and is replaced by another having
2527 the same or lesser heating capacity and the same or higher efficiency;
- 2528 2. No other alterations are made to the central HVAC system; and
- 2529 3. Where this exception has not been used within the same building in the
2530 previous two year period.

2531 NEW SECTION. SECTION 123. There is hereby added to the chapter
2532 established in section 68 of this ordinance a new section to read as follows:

2533 Section 505.1 of the International Energy Conservation Code is supplemented
2534 with the following:

2535 **Change of occupancy or Use – General – energy star equipment (IECC**

2536 **505.1.1).** Where the building or space is altered to become a bakery, commercial kitchen
2537 or commercial laundry, and the proposed design uses only all-electric Energy Star-rated

2538 process equipment and code compliant all-electric HVAC equipment, improvements to
2539 the building envelope immediately adjoining the spaces containing that use shall not be
2540 required. For the purposes of this exception, fossil fuel-combusting equipment shall not
2541 be used or installed within the building or space undergoing the change of occupancy.

2542 SECTION 124. Ordinance 8766, Section 6, as amended, and K.C.C. 16.08.050
2543 are hereby amended to read as follows:

2544 Approved numbers or addresses shall be provided for all new and existing
2545 buildings in such a position as to be plainly visible and legible from the road fronting the
2546 property and in conformance with this section.

2547 A. The owner, occupant((;)) or renter of any addressed building or other structure
2548 shall maintain the address numbers in a conspicuous place over or near the principal
2549 entrance or entrances. If ((said)) the entrance((;)) cannot be easily seen from the nearest
2550 adjoining ((street)) road, the address numbers shall be placed in such other conspicuous
2551 place on ((said)) the building or structure as is necessary for visually locating such address
2552 numbers from the nearest adjoining ((street)) road.

2553 B. If the addressed building or structure cannot be easily seen ((or is greater than
2554 ~~50 feet~~)) from the nearest adjoining ((street)) road, the address numbers shall be placed on a
2555 portion of the site that is clearly visible ((and no greater than 20 feet)) from the ((street))
2556 road.

2557 C. The address numbers shall:

2558 1. ((b))Be easily legible figures((;));

2559 2. Comply with the following size requirements, unless otherwise stipulated in
2560 this section;

<u>Distance from Right of Way</u>	<u>Minimum Letter Size</u>
<u>0-25 feet</u>	<u>3 inches</u>
<u>26-50 feet</u>	<u>4 inches</u>
<u>51-100 feet</u>	<u>6 inches</u>
<u>101-150 feet</u>	<u>8 inches</u>
<u>151-200 feet</u>	<u>10 inches</u>
<u>Over 200 feet</u>	<u>12 inches</u>

2561 3. ~~Be not ((less than three inches high if a residential use or individual multi-~~
 2562 ~~family unit, nor))~~ less than five inches high ((~~#~~)) for a commercial use(~~((Numbers shall))~~);

2563 4. ((~~e~~))Contrast with the color of the structure upon which they are placed((~~;~~));
 2564 and

2565 5. ((~~shall e~~))Either be illuminated during periods of darkness((~~;~~)) or be reflective,
 2566 so they are easily seen at night.

2567 SECTION 125. Ordinance 12560, Section 110, as amended, and K.C.C.
 2568 16.14.110 are hereby amended to read as follows:

2569 Section ((~~106.2~~)) 107 of the International Property Maintenance Code is
 2570 supplemented with the following:

2571 ((~~Substandard buildings~~)) **Notices and Orders (IPMC ((~~106.2~~)) 107).** All
 2572 buildings, portions thereof or premises which are determined by the code official not to
 2573 be in compliance with this Code are hereby declared to be a public nuisance and shall be
 2574 abated by repair, rehabilitation, demolition((~~;~~)) or removal in accordance with the
 2575 procedures specified in K.C.C. Title 23.

2576 SECTION 126. Ordinance 14914, Section 359, and K.C.C. 16.14.200 are hereby
2577 amended to read as follows:

2578 Section 108.2 of the International Property Maintenance Code is not adopted and
2579 the following is substituted:

2580 **Closing of vacant structures (IPMC 108.2).** If the structure is vacant and unfit
2581 for human habitation and occupancy, and is not in danger of structural collapse, the code
2582 official is authorized to post a placard of condemnation on the premises and order the
2583 structure closed up so as not to be an attractive nuisance. Upon failure of the owner or
2584 the owner's agent to close up the premises within the time specified enforcement action
2585 may be taken using the procedures of K.C.C. Title 23.

2586 SECTION 127. Ordinance 14914, Section 367, and K.C.C. 16.14.250 are hereby
2587 amended to read as follows:

2588 Section 109.1 of the International Property Maintenance Code is not adopted and
2589 the following is substituted:

2590 **Imminent danger (IPMC 109.1).** ~~((When, in the opinion of the code official,~~
2591 ~~there is imminent danger of failure or collapse of a building or structure which endangers~~
2592 ~~life, or when any structure or part of a structure has fallen and life is endangered by the~~
2593 ~~occupation of the structure, or when there is actual or potential danger to the building~~
2594 ~~occupants or those in the proximity of any structure because of explosives, explosive~~
2595 ~~fumes or vapors or the presence of toxic fumes, gases or materials, or operation of~~
2596 ~~defective or dangerous equipment, t))~~The code official is hereby authorized and
2597 empowered to order and require the occupants to vacate the premises of a building or
2598 structure ((forthwith)) immediately when, in the opinion of the code official:

2599 1. there is imminent danger of failure or collapse of a building or structure which
2600 endangers life;

2601 2. any structure or part of a structure has fallen and life is endangered by the
2602 occupation of the structure; or

2603 3. there is actual or potential danger to the building occupants or those in the
2604 proximity of any structure because of:

2605 3.1. explosives, explosive fumes or vapors;

2606 3.2. the presence of toxic fumes, gases or materials; or

2607 3.3. operation of defective or dangerous equipment.

2608 The code official shall ~~((cause to be posted))~~ post at each entrance to such
2609 structure or premises a notice as provided in ~~((Section))~~IPMC108.4. ~~((It shall be~~
2610 ~~unlawful for any))~~ No person ~~((to))~~ shall enter such structure except for the purpose of
2611 securing the structure or premises, making the required repairs, removing the hazardous
2612 condition or of demolishing the same.

2613 SECTION 128. Ordinance 12560, Section 124, as amended, and K.C.C.

2614 16.14.410 are hereby amended to read as follows:

2615 Section ~~((410.4))~~ 110 of the International Property Maintenance Code is not
2616 adopted and is substituted with the following:

2617 **General (IPMC ~~((410.4))~~ 110).** Demolition shall be in accordance with K.C.C.
2618 Title 23.

2619 SECTION 129. Ordinance 12560, Section 121, as amended, and K.C.C.

2620 16.14.430 are hereby amended to read as follows:

2621 Section ~~((411.1))~~ 111 of the International Property Maintenance Code is not
2622 adopted and is substituted with the following:

2623 ~~((Application for))~~ **Means of appeal (IPMC ((411.1)) 111)**. Appeals shall be in
2624 accordance with K.C.C. Titles 20 and 23.

2625 NEW SECTION. SECTION 130. There is hereby added to K.C.C. chapter 16.14
2626 a new section to read as follows:

2627 Section 112 of the International Property Maintenance Code is not adopted and
2628 the following is substituted:

2629 **Stop work order (IPMC 112)**. Stop work orders shall be in accordance with
2630 K.C.C. Title 23.

2631 SECTION 131. Ordinance 14111, Section 141, and K.C.C. 16.14.460 are hereby
2632 amended to read as follows:

2633 Section ~~((302.4))~~ 302 of the International Property Maintenance Code is ~~((not~~
2634 ~~adopted and the following is substituted))~~ supplemented with the following:

2635 **Fire hazard (IPMC ((302.4)) 302.10)**. Any building or portion thereof, device,
2636 apparatus, equipment, combustible waste, or vegetation that, in the opinion of the Fire
2637 Marshal or the Code Official, is in such a condition as to cause a fire or explosion or
2638 provide a ready fuel to augment the spread and intensity of fire or explosion arising from
2639 any cause shall be considered substandard. Upon failure of the owner or agent having
2640 charge of a property to cut and destroy weeds after service of a notice violation, they
2641 shall be subject to prosecution in accordance with the provisions of K.C.C. Title 23.

2642 SECTION 132. Ordinance 14914, Section 407, and K.C.C. 16.14.480 are hereby
2643 amended to read as follows:

2644 Section 303.2 of the International Property Maintenance Code is not adopted and
2645 the following is substituted:

2646 **Enclosures (IPMC 303.2).** ~~((Private swimming pools, hot tubs and spas,~~
2647 ~~containing water more than twenty-four inches (610 mm) in depth shall be completely~~
2648 ~~surrounded by a fence or barrier at least sixty inches (1,524 mm) in height above the~~
2649 ~~finished ground level measured on the side of the barrier away from the pool. Gates and~~
2650 ~~doors in such areas shall be self-closing and self-latching. Where the self-latching~~
2651 ~~devices is less than fifty-four inches (1,372 mm) above the bottom of the gate, the release~~
2652 ~~mechanism shall be located on the pool side of the gate. Self-closing and self-latching~~
2653 ~~gates shall be maintained such that the gate will positively close and latch when released~~
2654 ~~from an open position of six inches (152 mm) from the gatepost. No existing pool~~
2655 ~~enclosure shall be removed, replaced or changed in a manner that reduces its~~
2656 ~~effectiveness as a safety barrier.)) Swimming pool enclosures shall comply with the~~
2657 International Building Code Section 3109.

2658 SECTION 133. Ordinance 14914, Section 408, and K.C.C. 16.14.490 are hereby
2659 amended to read as follows:

2660 Section 304.3 of the International Property Maintenance Code is not adopted and
2661 the following is substituted:

2662 **Premises identification. (IPMC 304.3).** Approved numbers or addresses shall
2663 be provided for all new buildings in such a position as to be plainly visible and legible
2664 from the ~~((street or))~~ road fronting the property ~~((as specified by the department))~~ as
2665 required by K.C.C. 16.08.050.

2666 SECTION 134. Ordinance 6746, Section 5, as amended, and K.C.C. 16.32.030
2667 are hereby amended to read as follows:

2668 A. Chapters 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, ~~((14))~~ 15, ~~16~~~~((7))~~ and 17 and
2669 ~~((Appendix))~~ Appendices A (Recommended Rules for Sizing the Water Supply System),
2670 B (Explanatory Notes on Combination Waste and Vent Systems), ~~((and))~~ I (Installation
2671 Standard for PEX Tubing Systems for Hot- and Cold-Water Distribution) and M (Peak
2672 Water Demand Calculator) of the Uniform Plumbing Code, ~~((2012))~~ 2018 Edition, as
2673 published by or jointly with the International Association of Plumbing and Mechanical
2674 Officials and as amended in chapter 51-56 WAC~~((7))~~ and the gas piping provisions of the
2675 International Fuel Gas Code, ~~((2012))~~ 2018 Edition, the National Fuel Gas Code,
2676 ~~((2012))~~ 2018 Edition ~~((2012))~~ 2018 ANSI Z223.1/NFPA 54), the Liquefied Petroleum
2677 Gas Code, ~~((2011))~~ 2017 Edition ~~((2011))~~ 2017 NFPA 58) as amended in chapter 51-52
2678 WAC~~((7))~~ and International Residential Code, ~~((2012))~~ 2018 Edition, as amended in
2679 chapter 51-51 WAC, are hereby adopted and together with King County amendments,
2680 additions, exceptions and deletions adopted in this chapter are adopted as the King
2681 County Plumbing Code and may be cited as such and referred to in this chapter as "this
2682 code." This code shall have precedence over documents adopted by reference.

2683 B. This code also may be further clarified and implemented by administrative
2684 rules adopted in accordance with K.C.C. chapter 2.98.

2685 NEW SECTION. SECTION 135. There is hereby added to K.C.C. chapter 16.32
2686 a new section to read as follows:

2687 Section 102.1 of the Uniform Plumbing Code is not adopted and the following is
2688 substituted:

Plumbing permit fees for fixtures or traps, including water, drainage and vent piping, other than backflow devices and assemblies, for which a separate permit shall be obtained at the rates in this schedule:

One fixture or trap	\$140.00
Two to three fixtures or traps	\$210.00
Four to six fixtures or traps	\$298.00
Seven to ten fixtures or traps	\$333.00
More than ten fixtures or traps	\$333.00 base fee for ten fixtures or traps plus \$8.00 for each additional fixture or trap

Plumbing permit fees for backflow devices or assemblies:

One device or assembly	((130.00)) <u>\$140.00</u>
Two to three devices or assemblies	\$210.00
Four to six devices or assemblies	\$298.00
Seven to ten devices or assemblies	\$333.00
More than ten devices or assemblies	\$333.00 base fee for ten devices or assemblies plus \$8.00 for each

additional device or
assembly

Gas piping permit fees for outlets:

<u>One to four outlets</u>	<u>\$140.00</u>
<u>Five to six outlets</u>	<u>\$175.00</u>
<u>Seven to nine outlets</u>	<u>\$210.00</u>
<u>Ten outlets</u>	<u>\$245.00</u>
<u>More than ten outlets</u>	<u>\$245.00 base fee for</u> <u>ten outlets plus</u> <u>\$10.00 for each</u> <u>additional outlet</u>

2710 ((B-)) For the purpose of this section((;)):

2711 1. "fixture" means an appliance that is connected with water, drain or vent pipe,
2712 but a sillcock faucet or hose bibb is not considered a fixture. A sanitary plumbing outlet
2713 on or to which a plumbing fixture or appliance may be set or attached is a fixture; and

2714 2. "outlet" means the point at which a fuel-gas appliance connects to the gas
2715 piping system, or a medical gas or medical vacuum connection is installed.

2716 SECTION 138. Ordinance 15802, Section 122, and K.C.C. 16.32.195 are hereby
2717 amended to read as follows:

2718 Section ((402.4)) 103.1 of the Uniform Plumbing Code ((not adopted and the
2719 following is substituted)) is supplemented with the following:

2720 **Authority Having Jurisdiction (UPC ((402.4)) 103.1.1).** The authority having
2721 jurisdiction is the director of ((the Seattle King County department of)) public health -

2722 Seattle & King County or the director's authorized representative, who shall administer
2723 and enforce the provisions of this code(~~(-)~~), render interpretations of this code and make
2724 and enforce such rules and regulations, in accordance with K.C.C. chapters 2.98 and
2725 2.100.

2726 SECTION 139. Ordinance 15802, Section 123, and K.C.C. 16.32.205 are hereby
2727 amended to read as follows:

2728 Section (~~(402.2.2)~~) 103.4 of the Uniform Plumbing Code is not adopted and the
2729 following is substituted:

2730 **Right of Entry (UPC (~~(402.2.2)~~) 103.4).** Upon presentation of proper
2731 credentials, the authority having jurisdiction may, with the consent of the occupant or
2732 with the consent of the owner of an unoccupied building or premises, or in accordance
2733 with a lawfully issued search warrant, enter at reasonable times a building or premises to
2734 perform a duty imposed upon the authority having jurisdiction by this code(~~(- provided~~
2735 ~~that t)~~). The authority having jurisdiction shall make entry only if such entry is consistent
2736 with the constitutions and laws of the United States and the state of Washington.

2737 SECTION 140. Ordinance 15802, Section 124, as amended, and K.C.C.
2738 16.32.215 are hereby amended to read as follows:

2739 Section (~~(402.2.3)~~) 106.4 of the Uniform Plumbing Code is not adopted and the
2740 following is substituted:

2741 **Stop Work Order and Correction Order (UPC (~~(402.2.3)~~) 106.4).**

2742 A. Whenever any work is being done contrary to the provisions of this code, the
2743 authority having jurisdiction may order the work stopped by notice in writing served on
2744 any persons engaged in the doing or causing such work to be done, and any such persons

2745 shall (~~forthwith~~) immediately stop work until authorized by the authority having
2746 jurisdiction to proceed with the work. Service of a stop work order shall be made by one
2747 or more of the following methods:

2748 Personal service: Personal service of a stop work order may be made on the
2749 property owner (~~and~~) or on any person doing or causing the work to be done, or by
2750 leaving the stop work order at the house of usual abode of the person being served (~~(;~~
2751 ~~provided that~~) if the stop work order is left with a person of suitable age and discretion
2752 who resides there.

2753 Service by posting on the property: Service directed to the property owner
2754 (~~and~~) or person engaged in doing or causing such work to be done may be made by
2755 posting the stop work order in a conspicuous place on the property where the work is
2756 occurring, and concurrently mailing notice as (~~provided for below~~) required by this
2757 subsection, if a mailing address is available.

2758 Service by mail: Service by mail may be made for a stop work order by mailing
2759 two copies, postage prepaid, one by ordinary first class mail and the other by certified
2760 mail, to the property owner and to any person engaged in doing or causing such work to
2761 be done, at their last known addresses, at the address of the location of the work being
2762 done, or at the address of the place of business of the person being served. The taxpayer's
2763 address as shown on the tax records of the county shall be deemed to be the proper
2764 address for the purpose of mailing such notice to the person being served. Service by
2765 mail shall be presumed effective upon the third business day following the day upon
2766 which the stop work order was placed in the mail.

2767 B. Whenever any work is being done contrary to the provisions of this code, the
2768 authority having jurisdiction may order the violations corrected without ordering all work
2769 stopped by issuing a correction notice that identifies the violation. The correction notice
2770 may require an inspection before further construction or at the time of the next required
2771 inspection. The correction notice shall be served or posted in the same manner as a stop
2772 work order.

2773 C. The remedies (~~(set forth)~~) in this section are in addition to those authorized
2774 elsewhere in this code.

2775 SECTION 141. Ordinance 15802, Section 126, and K.C.C. 16.32.235 are hereby
2776 amended to read as follows:

2777 Section (~~(402.2.6)~~) 103.2 of the Uniform Plumbing Code is not adopted and the
2778 following is substituted:

2779 **Liability (~~(Claims)~~) (UPC (~~(402.2.6)~~) 103.2).** This code is enacted as an exercise
2780 of the police power of King County to protect and preserve the public peace, health,
2781 safety and welfare, and its provisions shall be liberally construed for the accomplishment
2782 of these purposes. It is expressly the purpose of this code to provide for and promote the
2783 health, safety and welfare of the general public, and not to create or otherwise establish or
2784 designate any particular class or group of persons who (~~(will)~~) would or should be
2785 especially protected or benefited by the terms of this code.

2786 It is the specific intent of this code to place the obligation of complying with its
2787 requirements upon the owner or occupier of premises within this code's scope, and no
2788 provision nor term used in this code is intended to impose any duty (~~(whatsoever)~~) upon
2789 the authority having jurisdiction or any of the authority having jurisdiction's officers or

2790 employees, for whom the implementation or enforcement of this code shall be
2791 discretionary and not mandatory.

2792 Nothing in this code creates or forms the basis for any liability on the part of the
2793 authority having jurisdiction, or the authority having jurisdiction's officers, employees or
2794 agents, for any injury or damage resulting from the failure of the owner or occupier of
2795 premises to comply with the provisions of this code, or by reason or in consequence of
2796 any act or omission in connection with the implementation or enforcement of this code on
2797 the part of the authority having jurisdiction or by the authority having jurisdiction's
2798 officers, employees or agents.

2799 Any claim or litigation arising from any conduct, acts or omissions of the
2800 authority having jurisdiction, or any of the authority having jurisdiction's officers,
2801 employees or agents, shall be subject to the provisions of K.C.C. chapter(~~s 4.12 and~~
2802 ~~4.13~~) 2.21.

2803 SECTION 142. Ordinance 15802, Section 128, and K.C.C. 16.32.255 are hereby
2804 amended to read as follows:

2805 Section (~~(402.3.2)~~) 106.3 of the Uniform Plumbing Code is not adopted and the
2806 following is substituted:

2807 **Penalties (UPC (~~(402.3.2)~~) 106.3).** Any person, firm, corporation or other entity
2808 violating any provision of this code shall be deemed guilty of a misdemeanor, and upon
2809 conviction thereof, shall be punishable by a fine (~~(and/)~~)or imprisonment, or both, in
2810 accordance with K.C.C. Title 23 or state law. Each separate day or any portion thereof,
2811 during which any violation of this code occurs or continues, shall be deemed to constitute
2812 a separate offense.

2813 SECTION 143. Ordinance 15802, Section 130, and K.C.C. 16.32.275 are hereby
2814 amended to read as follows:

2815 Section ~~((403.1.3))~~ 103.3.1 of the Uniform Plumbing Code is not adopted and the
2816 following is substituted:

2817 ~~((103.1.3))~~ **Certification and Registration (UPC ~~((103.1.3))~~ 103.3.1)**. It shall
2818 be the obligation of ~~((every))~~ a person who enters into contracts for the installation or
2819 repair of plumbing systems for which this code requires a permit, to comply with all
2820 applicable state or local rules and regulations concerning plumber certification and
2821 contractor registration.

2822 SECTION 144. Ordinance 15802, Section 131, as amended, and K.C.C.
2823 16.32.285 are hereby amended to read as follows:

2824 Section ~~((403.3.3))~~ 104.4.2 of the Uniform Plumbing Code is not adopted and the
2825 following is substituted:

2826 **Validity of Permit (UPC ~~((103.3.3))~~ 104.4.2)**. The issuance of a permit or
2827 approval of plans and specifications shall not be construed to be a permit for, or an
2828 approval of, any violation of any of the provisions of this code or of any other ordinance
2829 of the jurisdiction. No permit presuming to give authority to violate or cancel the
2830 provisions of this code shall be valid.

2831 The issuance of a permit based upon plans, specifications or other data shall not
2832 prevent the authority having jurisdiction from thereafter requiring the correction of errors
2833 contained in ~~((said))~~ the plans, specifications and other data or from preventing building
2834 operations being carried on thereunder when in violation of this code or of other
2835 ordinances of this jurisdiction.

2836 Every plumbing permit shall be kept on the site where the work permitted is being
2837 performed and shall not be removed until the work has been finally approved by the
2838 authority having jurisdiction.

2839 ~~((Every permit issued by the authority having jurisdiction under the provisions of
2840 this code shall expire by limitation and become null and void one year from date of issue.
2841 Permits expired for not more than one year may be renewed one time only for one half
2842 the original cost or fifty dollars (\$50), whichever is less. Any person seeking renewal of
2843 a permit expired for more than one year shall pay the full amount of the original permit
2844 cost in accordance with the fee schedule.))~~

2845 Plumbing work authorized by a permit in effect on or after ~~((July 1, 2013))~~ the
2846 effective date of this ordinance, shall be performed in accordance with the laws and
2847 ordinances in effect when the permit was issued, except when:

2848 1. ((§))The authority having jurisdiction determines such work to be in fact
2849 dangerous, unsafe, insanitary(~~(;))~~) or a nuisance or a menace to life, health or property; or

2850 2. A building permit has been approved before the effective date of this
2851 ordinance.

2852 NEW SECTION. SECTION 145. There is hereby added to K.C.C. chapter 16.32
2853 a new section to read as follows:

2854 Section 104.4.3 of the Uniform Plumbing Code is not adopted and the following
2855 is substituted:

2856 **Expiration (UPC 104.4.3).** Permits issued by the authority having jurisdiction
2857 under this code shall expire eighteen months from date of issue.

2858 NEW SECTION. SECTION 146. There is hereby added to K.C.C. chapter 16.32
2859 a new section to read as follows:

2860 Section 104.4.4 of the Uniform Plumbing Code is not adopted and the following
2861 is substituted:

2862 **Extensions (UPC 104.4.4).** Permits may be renewed (~~((one time only))~~) once for
2863 one-half the original permit cost or fifty dollars (~~(((\$50))~~), whichever is less. The renewed
2864 permit shall expire eighteen months from the original expiration date. Any person
2865 seeking renewal of a permit that has previously been renewed, shall apply for a new
2866 permit in accordance with the code and pay the full amount of the permit cost in
2867 accordance with the fee schedule

2868 SECTION 147. Ordinance 15802, Section 132, and K.C.C. 16.32.295 are hereby
2869 amended to read as follows:

2870 Section (~~((403.3.5))~~) 104.4.5 of the Uniform Plumbing Code is not adopted and the
2871 following is substituted:

2872 **Suspension, Revocation or Limitation of Permits (UPC (~~((103.3.5))~~) 104.4.5).**

2873 (~~((A-))~~) 1. In addition to other remedies provided by law, the authority having
2874 jurisdiction may, in writing, suspend, revoke or limit a permit issued under (~~((the~~
2875 ~~provisions of~~)) this code if:

2876 (~~((1))~~) 1.1. The permit holder committed a violation of this code (~~((or~~), other
2877 ordinances(~~((,))~~) or any rules and regulations adopted by the authority having jurisdiction,
2878 in the course of performing activities subject to that permit;

2879 (~~((2))~~) 1.2. The permit holder interfered with the authority having jurisdiction in
2880 the performance of the authority having jurisdiction's duties relating to the permit;

2881 ~~((3))~~ 1.3. The permit was issued in error or on the basis of materially incorrect
2882 information supplied to the authority having jurisdiction; or

2883 ~~((4))~~ 1.4. Permit fees or costs were paid to the county by check and returned
2884 from a financial institution marked nonsufficient funds or canceled.

2885 ~~((B-))~~ 2. The suspension, revocation or limitation shall be carried out through the
2886 notice and order provisions of K.C.C. Title 23, is effective on the date established by the
2887 notice and order and may be appealed to the King County hearing examiner in
2888 accordance with the appeal provisions of K.C.C. Title 23.

2889 ~~((C))~~ 3. Notwithstanding any other provision of this code, the administrative
2890 authority may immediately suspend operations under a permit by issuing a stop work
2891 order in accordance with this code.

2892 SECTION 148. Ordinance 15802, Section 133, and K.C.C. 16.32.306 are hereby
2893 amended to read as follows:

2894 Section ~~((403.5.6))~~ 105.2.6 of the Uniform Plumbing Code is not adopted and the
2895 following is substituted:

2896 **Reinspections (UPC ~~((403.5.6))~~ 105.2.6).** A reinspection fee may be assessed for
2897 each inspection or reinspection when part or all of the work for which inspection is called
2898 is not complete or when required corrections have not been made.

2899 This provision is not to be interpreted as requiring reinspection fees the first time
2900 a job is rejected for failure to comply with the requirements of this code, but as
2901 controlling the practice of calling for inspections before the job is ready for inspection or
2902 reinspection.

2903 Reinspection fees may be assessed when the approved plans are not readily
2904 available to the inspector, for failure to provide access on the date for which the
2905 inspection is requested, or for deviating from plans when such deviation requires but has
2906 not received the approval of the authority having jurisdiction.

2907 To obtain reinspection, the applicant shall file an application therefor in writing
2908 upon a form furnished for that purpose and pay the reinspection fee in accordance with
2909 K.C.C. (~~(16.32.080)~~) 16.32.095.

2910 In instances where reinspection fees have been assessed, no additional inspection
2911 of the work (~~(will)~~) shall be performed until the required fees have been paid.

2912 NEW SECTION. SECTION 149. There is hereby added to K.C.C. chapter 16.32
2913 a new section to read as follows, to follow K.C.C. 16.32.335:

2914 Section 107 of the Uniform Plumbing Code is not adopted.

2915 NEW SECTION. SECTION 150. There is hereby added to K.C.C. chapter 16.32
2916 a new section to read as follows:

2917 Section 501 of the Uniform Plumbing Code is supplemented with the following:

2918 **Water Heaters Used for Space Heating (UPC 501.2).**

2919 1. Water heaters used both to supply potable hot water and provide hot water for
2920 space-heating applications shall be:

2921 1.1. Listed and labeled for such applications by the manufacturer.

2922 1.2. Installed in accordance with the manufacturer's instructions and this code.

2923 1.3. Sized to prevent the space-heating load from diminishing the required
2924 potable water-heating capacity.

2925 2. Where a combination potable water-heating and space-heating system requires
2926 water for space heating at temperatures higher than 140° F (60° C), a temperature-
2927 actuated mixing valve that conforms to ASSE 1017 shall be provided to temper the water
2928 supplied to the potable hot water distribution system to a temperature of 140° F (60° C)
2929 or less.

2930 NEW SECTION. SECTION 151. There is hereby added to K.C.C. chapter 16.32
2931 a new section to read as follows:

2932 Section 501 of the Uniform Plumbing Code is supplemented with the following:

2933 **Supplemental Water-Heating Devices (UPC 501.3).** Potable water heating
2934 devices that use refrigerant-to-water heat exchangers shall be approved and installed in
2935 accordance with this code and the manufacturer's instructions.

2936 NEW SECTION. SECTION 152. There is hereby added to K.C.C. chapter 16.32
2937 a new section to read as follows:

2938 Section 604.14 of the Uniform Plumbing Code is not adopted and the following is
2939 substituted:

2940 **Termination of Building Supply Piping (UPC 604.14).** Plastic water service
2941 piping may terminate within a building, but the connection to the potable water
2942 distribution system shall be made as near as is practical to the point of entry and shall be
2943 accessible. Barbed insert fittings with hose clamps are prohibited as a transition fitting
2944 within the building.

2945 **EXCEPTION:** The connection to the potable water distribution system for PVC
2946 and PE piping shall be within one foot of the building perimeter point of entry.

2947 NEW SECTION. SECTION 153. There is hereby added to K.C.C. chapter 16.32
2948 a new section to read as follows:

2949 Section 709.1 of the Uniform Plumbing Code is not adopted and the following is
2950 substituted:

2951 **709.1 General (UPC 709.1).** Plumbing fixtures shall be drained to the sanitary
2952 waste system by gravity flow.

2953 **EXCEPTION:** Plumbing fixtures are permitted to be pumped or ejected as
2954 allowed by UPC 710.2 or approved by the authority having jurisdiction.

2955 NEW SECTION. SECTION 154. There is hereby added to K.C.C. chapter 16.32
2956 a new section to read as follows:

2957 Chapter 9 of the Uniform Plumbing Code is supplemented with the following:

2958 **Air Admittance Valves (UPC 913.0).** Individual fixtures, a branch vent, a
2959 vertical wet vent and a horizontal wet vent may terminate with a connection to an air
2960 admittance valve as follows:

2961 1. Fixtures connected to an air admittance valve shall be located on the same
2962 floor level.

2963 2. Air admittance valves shall conform to ASSE 1051 for single fixtures, ~~((and))~~
2964 or ASSE 1050 for multiple fixtures, and shall be installed as required in this section and
2965 the manufacturer installation guidelines.

2966 3. Air admittance valves shall be accessible and located:

2967 3.1. In an area that allows air to enter the valve.

2968 3.2. A minimum of ~~((four(4)))~~ 4 inches above the trap arm.

2969 3.3. A minimum of ~~((six (6)))~~ 6 inches above the flood level rim of the highest
2970 fixture being vented, ~~((where))~~ when the air admittance valve serves as a vent termination
2971 for a branch vent, or vertical and horizontal wet vent.

2972 3.4. Not less than ~~((six (6)))~~ 6 inches above insulation materials.

2973 3.5. Within the maximum developed length permitted for the vent as shown in
2974 UPC Table 703.2.

2975 4. The air admittance valve shall be rated in accordance with the standard for the
2976 vent size as determined in UPC Table 703.2.

2977 5. Not less than one plumbing vent sized as required by UPC 904.1 shall extend
2978 to the exterior of the building as required in UPC 906.1.

2979 6. When a horizontal branch drain uses an individual or branch type air
2980 admittance valve, a relief vent shall be installed when the horizontal branch drain is
2981 located more than ~~((four (4)))~~ 4 branch intervals from the top of the building drain or
2982 waste stack. Installations that require a relief vent shall be:

2983 6.1. Submitted for an installation design review before approval.

2984 6.2. Sized in accordance with UPC 904.1.

2985 6.3. Installed in accordance with UPC 905.0.

2986 6.4. Extended to the outdoors or connect to a vent stack.

2987 6.5. Permitted to serve as the vent for other fixtures.

2988 7. Air admittance valve installations are prohibited for:

2989 7.1. Venting sumps or tanks.

2990 7.2. Non-neutralized chemical waste systems without a design review and
2991 approval by the authority having jurisdiction.

2992 7.3. Any fixtures connected to a grease or fats, oils and grease (FOG) disposal
2993 system.

2994 7.4. Location in spaces used as supply or return air plenums.

2995 NEW SECTION. SECTION 155. There is hereby added to K.C.C. chapter 16.32
2996 a new section to read as follows:

2997 Section 1014.1 of the Uniform Plumbing Code is not adopted and the following is
2998 substituted:

2999 **General (UPC 1014.1).** Where it is determined by the authority having
3000 jurisdiction that waste pretreatment is required, an approved type of grease interceptor(s)
3001 that complies with ASME A112.14.3, ASME A112.14.4, CSA B481, PDI G-101 or PDI
3002 G-102, and sized in accordance with UPC 1014.2.1 or 1014.3.6, shall be installed in
3003 accordance with the manufacturer's installation instructions to receive the drainage from
3004 fixtures or equipment that produce grease-laden waste located in areas of establishments
3005 where food is prepared or other establishments where grease is introduced into the
3006 drainage or sewage system in quantities that can effect line stoppage or hinder sewage
3007 treatment or private sewage disposal systems. A combination of hydromechanical,
3008 gravity grease interceptors and engineered systems are allowed to meet this code and
3009 other applicable requirements of the authority having jurisdiction where space or existing
3010 physical constraints of existing buildings require such installations. Grease interceptors
3011 are not required for individual dwelling units or private living quarters. Water closets,
3012 urinals and other plumbing fixtures conveying human waste shall not drain into or
3013 through the grease interceptor. Grease interceptors shall comply with UPC 1014.1.1
3014 through 1014.1.3.

3015 **EXCEPTION:** A one-family or two-family home that has an approved
3016 commercial kitchen or prepares food for public sale shall install a grease interceptor that
3017 complies to Section 1014.0 for all fixtures that produce fats, oils and grease (FOG) waste.

3018 NEW SECTION. SECTION 156. There is hereby added to K.C.C. chapter 16.32
3019 a new section to read as follows:

3020 Section 1014.1.3 of the Uniform Plumbing Code is not adopted and the following
3021 is substituted:

3022 **Food Waste Disposers and Dishwashers (UPC 1014.1.3).** No food waste
3023 disposer or dishwasher shall be connected to or discharge into a grease interceptor.
3024 Commercial food waste disposers may discharge directly into the building's drainage
3025 system.

3026 **EXCEPTION:** Food waste disposers may discharge to grease interceptors that
3027 are designed to receive the discharge of food waste or a listed food solids interceptor
3028 shall be installed at the discharge point of the food waste disposer.

3029 SECTION 157. Ordinance 15802, Section 137, and K.C.C. 16.32.345 are hereby
3030 amended to read as follows:

3031 Chapter 10 of the Uniform Plumbing Code is supplemented with the following:

3032 **Parking Garage Drainage Systems (UPC 1018.1).** All garage floor drainage
3033 under the roof of a parking garage shall be connected to the sanitary drainage system,
3034 through the use of a sand interceptor. When the top floor of the building is used as a roof
3035 as well as a parking area, the drainage from the roof shall be connected to the storm
3036 drainage system. Drainage from ~~((conventional))~~ plumbing fixtures shall not be inter-
3037 connected with the ~~((floor))~~ garage drainage system~~((--H))~~; however, drainage lines from

3038 car or truck washing equipment may be connected to the ~~((floor))~~ approved garage
3039 drainage system ~~((through an approved sand interceptor))~~. Garage drains shall comply
3040 with the following:

3041 1. ((Floor drainage waste lines)) Garage drain piping shall be a minimum of three
3042 inches in size. ~~((Waste unit loading for three inch or larger size floor drainage piping~~
3043 ~~shall be sized in accordance with table 7-5 of this code. Floor drains or floor drain~~
3044 ~~openings shall be equipped with approved strainers and need not be trapped when~~
3045 ~~connected to the building drain through a properly trapped and vented sand interceptor.))~~

3046 2. A ((F))trap((s)) shall not be ~~((used when the floor))~~ installed at the garage
3047 drains ~~((are located in areas exposed to freezing temperatures. The waste line from floor~~
3048 ~~drains entering a sand interceptor shall be above the waste line discharging from the sand~~
3049 ~~interceptor to the building drain. The sand interceptor receiving the floor drains shall~~
3050 ~~have a water seal of not less than six inches. Floor drain traps need not be vented~~
3051 ~~individually if line venting is used through an approved indirect waste system with a~~
3052 ~~properly trapped and vented sand interceptor. A line vent for floor drains shall terminate~~
3053 ~~through the roof or to an approved location in the outside atmosphere. When using line~~
3054 ~~venting, the terminating vents, if more than one, shall be equal in cross sectional area to~~
3055 ~~the size of the waste line entering the sand interceptor or the line vent may continue full~~
3056 ~~size from the sand interceptor to the point of termination)). All plans for parking garage~~
3057 ~~((floor)) drainage systems shall be submitted to the authority having jurisdiction ((prior~~
3058 ~~to)) before installation for approval.~~

3059 **EXCEPTION:** This section shall not apply to one-family or two-family
3060 dwellings.

3061 SECTION 158. Ordinance 15802, Section 138, and K.C.C. 16.32.355 are hereby
3062 amended as follows:

3063 Section ~~((1104))~~ 1101.3 of the Uniform Plumbing Code is not adopted and the
3064 following is substituted:

3065 **Combining Storm with Sanitary Sewage (UPC ~~((1104))~~ 1101.3).** The sanitary
3066 and storm drainage systems of a building shall be entirely separate.

3067 SECTION 159. Ordinance 2097, Section 1, as amended, and K.C.C. 17.04.010
3068 are hereby amended to read as follows:

3069 The International Fire Code ~~((2012))~~ 2018 Edition, together with Appendices B
3070 (Fire-flow requirements for buildings) and C (Fire hydrants location and distribution), as
3071 published by the International Code Council, as amended in chapter 51-54A WAC,
3072 effective February 1, ~~((2013))~~ 2021, and referred to in this title as the International Fire
3073 Code ("IFC"), together with amendments, additions, and deletions adopted in this chapter
3074 by reference, together with King County modifications are adopted as the ~~((Fire Code~~
3075 ~~o€))~~ King County Fire Code, and referred to in this chapter as "this code." Administrative
3076 rules may be adopted in accordance with K.C.C. chapter 2.98 to further clarify and
3077 implement these code requirements. The King County modifications shall be codified in
3078 this chapter.

3079 SECTION 160. Ordinance 12560, Section 148, as amended, and K.C.C.
3080 17.04.200 are hereby amended to read as follows:

3081 Section 104.1 of the International Fire Code is not adopted and the following is
3082 substituted:

3083 **General (IFC 104.1).** The ~~((F))~~fire ~~((M))~~marshal is authorized to render
3084 interpretations of this code and make and enforce such rules and regulations, ~~((pursuant~~
3085 ~~to the provisions of))~~ in accordance with K.C.C. chapters 2.98 and 2.100, for the
3086 prevention and control of fires and fire hazards as necessary to ~~((carry out))~~ execute the
3087 application and the intent of this code, including but not limited to:

- 3088 1. Procedures to ~~((assure))~~ ensure that building permits for structures shall
3089 conform to the requirements of this code.
- 3090 2. Procedures to ~~((assure))~~ ensure that applicable standards of this code shall be
3091 reviewed as part of the subdivision, short subdivision, urban planned development,
3092 rezone, conditional use, special use, site development permit, binding site plan and
3093 building permit processes.
- 3094 3. Procedures to assure that the standard known as NFPA 13R shall be applied as
3095 a minimum standard to all R occupancies.
- 3096 4. Procedures to allow for relaxation of the hydrant spacing requirements by as
3097 much as 50~~((% pursuant to K.C.C. chapter 17.08))~~ percent, except when such allowances
3098 would unreasonably reduce fire protection to the area or structures served.

3099 ~~((5. A minimum of one certified copy or the number required by governing law
3100 of such rules and regulations shall be filed with the clerk of the council and shall be in
3101 effect immediately thereafter and additional copies shall be kept in the King County Fire
3102 Marshal's Office for distribution to the public.))~~

3103 SECTION 161. Ordinance 2097 (part), as amended, and K.C.C. 17.04.210 are
3104 hereby amended to read as follows:

3105 Section 104.1 of the International Fire Code is supplemented with the following:

3106 **Enforcement (IFC 104.1.1).**

3107 1. The fire marshal (~~(or designee)~~) is authorized to enforce the provisions of this
3108 ~~((chapter))~~ title, the ordinances codified in it, and any adopted rules and regulations in
3109 accordance with the enforcement and penalty provisions of K.C.C. Title 23.

3110 2. The fire marshal (~~(or designee)~~), any officer of the department of public safety,
3111 and the chief of the fire district or designee, is authorized to take such lawful action,
3112 including the writing and issuance of citations for civil infractions, as may be required to
3113 enforce the provisions of the fire lane ordinance codified in this title.

3114 SECTION 162. Ordinance 12560, Section 154, as amended, and K.C.C.

3115 17.04.230 are hereby amended to read as follows:

3116 Section 104.1 of the International Fire Code is supplemented with the following:

3117 **Duties of the fire marshal and fire districts (IFC 104.1.3).**

3118 1. The fire marshal shall have responsibility for administration and inspection
3119 functions to promote compliance of the fire prevention provisions of this code.

3120 2. The ~~((€))~~chiefs of the King County ~~((£))~~fire ~~((Ð))~~districts ~~((and))~~, municipal
3121 ~~((£))~~fire ~~((Ð))~~departments and regional fire protection service authorities shall have
3122 responsibility for fire suppression or extinguishing provisions of this code within their
3123 respective jurisdictions.

3124 3. The fire marshal may, by written contract, delegate to the chiefs of the fire
3125 districts or fire departments authority for inspections of the fire prevention provisions of
3126 this code within their respective jurisdictions.

3127 4. The fire marshal may, at the request of a fire districts or fire department,
3128 assume an advisory status in matters of operations, function, expenditure, tactics,

3129 personnel and equipment or any other function performed by the fire district or fire
3130 department.

3131 SECTION 163. Ordinance 17837, Section 75, and K.C.C. 17.04.295 are hereby
3132 amended to read as follows:

3133 Section 105.7.21 of the International Fire Code is ~~((supplemented with))~~ not
3134 adopted and the following is substituted:

3135 **Solar photovoltaic power systems (IFC ~~((105.7.13))~~ 105.7.21).** A construction
3136 permit ~~((is))~~ shall be required to install or modify solar photovoltaic power systems.

3137 ~~((Exception))~~ **EXCEPTION:** Roof-mounted ~~((photo-voltaic))~~ photovoltaic solar
3138 panels on one and two family dwellings that have a total dead load not exceeding
3139 ~~((three))~~ four pounds per square foot and ~~((-))~~ are mounted no more than eighteen inches
3140 above the roof or highest roof point on which they are mounted.

3141 SECTION 164. Ordinance 14915, Section 25, and K.C.C. 17.04.310 are hereby
3142 amended to read as follows:

3143 Sections ~~((108.3))~~ 109 of the International Fire Code is not adopted.

3144 SECTION 165. Ordinance 14915, Section 26, and K.C.C. 17.04.320 are hereby
3145 amended to read as follows:

3146 Sections ~~((111.1))~~ 112.1 and 112.2 of the International Fire Code ~~((is))~~ are not
3147 adopted and the following is substituted:

3148 **Order and Issuance (IFC ~~((111.1))~~ 112.1 and 112.2).** Whenever any work is
3149 being done contrary to the provisions of this code, the fire marshal may order the work
3150 stopped in accordance with K.C.C. Title 23 by notice in writing served on any persons
3151 engaged in the doing or causing such work to be done, or by posting such notice in a

3152 conspicuous place on the premises where the violation is occurring, and any such persons
3153 shall ~~((forthwith))~~ immediately stop such work until authorized by the fire marshal to
3154 proceed with the work.

3155 Whenever any work is being done contrary to the provisions of this code, the fire
3156 marshal may order the violations corrected without ordering all work stopped by issuing
3157 a correction notice which identifies the violation. The correction notice may require
3158 reinspection ~~((prior to))~~ before further construction~~((s))~~ or at the time of the next required
3159 inspection. The correction notice shall be served or posted in the same manner as a stop
3160 work order.

3161 These remedies are in addition to those authorized elsewhere in the code.

3162 SECTION 166. Ordinance 14915, Section 27, and K.C.C. 17.04.330 are hereby
3163 amended to read as follows:

3164 Section ~~((444.4))~~ 112.4 of the International Fire Code is not adopted.

3165 NEW SECTION. SECTION 167. There is hereby added to K.C.C. chapter 17.04
3166 a new section to read as follows:

3167 Section 202 of the International Fire Code is supplemented with the following:

3168 **Definitions (IFC 202.1).** Definitions. The definitions in this section apply
3169 throughout this title unless the context clearly requires otherwise.

3170 A. Applicant: a property owner or a public agency or public or private utility
3171 which owns a right-of-way or associated easement or has been adjudicated the right to
3172 such an easement pursuant to RCW 8.12.090, or any person or entity designated or
3173 named in writing by the property or easement owner to be the applicant, in an application
3174 for a permit.

3175 B. Critical fire service areas: Areas that provide vital services for the
3176 coordination or implementation of fire suppression services, such as fire command
3177 centers, fire pump rooms, interior exit stairways, exit passageways, elevator lobbies,
3178 standpipe cabinets and sprinkler sectional valve locations, and other areas required by the
3179 fire marshal.

3180 C. Fire detection system: a heat and/or smoke detection system monitored by a
3181 central and/or remote station conforming to the current edition of the International Fire
3182 Code as adopted by the Washington State Building Code Council and/or the fire marshal
3183 or designee.

3184 D. Fire marshal: The King County fire marshal as designated in K.C.C.
3185 2.16.055, or designee.

3186 E. Life safety/rescue access: an unobstructed access to all floor levels and each
3187 roof level of a building on not less than twenty percent of the building perimeter by
3188 utilizing a thirty-five foot ladder. An alternate method would be at least one stairway
3189 enclosure with exit doorways from each floor level and with a door opening onto each
3190 roof level which conforms to the requirements of the International Building Code.

3191 F. NFPA: The National Fire Protection Association.

3192 G. Water main: piping used to deliver water to any fire hydrants or to one or
3193 more individual service connections.

3194 NEW SECTION. SECTION 168. There is hereby added to K.C.C. chapter 17.04
3195 a new section to read as follows:

3196 Section 503.1 of the International Fire Code is not adopted and the following is
3197 substituted:

3198 **Where required (IFC 503.1).** Fire apparatus access roads shall be provided and
3199 maintained for new facilities or buildings, or portions thereof.

3200 NEW SECTION. SECTION 169. There is hereby added to K.C.C. chapter 17.04
3201 a new section to read as follows:

3202 Specifications (IFC 503.2). Fire apparatus access roads shall be installed and
3203 arranged in accordance with IFC 503.2.1 and 503.2.2.

3204 NEW SECTION. SECTION 170. There is hereby added to K.C.C. chapter 17.04
3205 a new section to read as follows:

3206 Section 503.2 of the International Fire Code is not adopted and the following is
3207 substituted:

3208 **Dimensions (IFC 503.2.1).** An approved fire apparatus access road shall be a
3209 minimum of 20 feet wide and provide a minimum unobstructed height of 13 feet 6
3210 inches.

3211 SECTION 171. Ordinance 12560, Section 165, as amended, and K.C.C.
3212 17.04.380 are hereby amended to read as follows:

3213 Section 503.2.2 of the International Fire Code is not adopted and the following is
3214 substituted:

3215 **Surface (IFC 503.2.2).** ~~((Fire apparatus access roads shall be designed and~~
3216 ~~maintained to support the imposed loads of 25 tons))~~ Fire apparatus access roads shall be
3217 designed and maintained to be accessible with an asphalt, concrete or other approved
3218 driving surface suitable for all-weather driving and capable of supporting the imposed
3219 load of fire apparatus weighing at least 75,000 pounds, or other weight as required by the
3220 ~~((F))fire ((M))marshal, and shall ((be provided with a surface so as to provide all-weather~~

3221 ~~driving capabilities that~~) comply with K.C.C. chapter 14.42(~~(, King County Road~~
3222 ~~Standards~~) and the provisions of this chapter.

3223 SECTION 172. Ordinance 7980, Section 1, as amended, and K.C.C. 17.04.420
3224 are hereby amended to read as follows:

3225 Sections 503.3 and 503.4 of the International Fire Code are not adopted and the
3226 following is substituted:

3227 **Marking ~~(of and)~~, establishment and obstruction of fire lanes** (IFC 503.3
3228 and 503.4).

3229 ~~((A-))~~ 1. Establishment of ~~((F))~~fire ~~((L))~~lanes. Fire lanes in conformance with
3230 this code shall be established by the ~~((King County))~~ fire marshal ~~((or designee,))~~ and
3231 shall be referred to as designated fire lanes in this section.

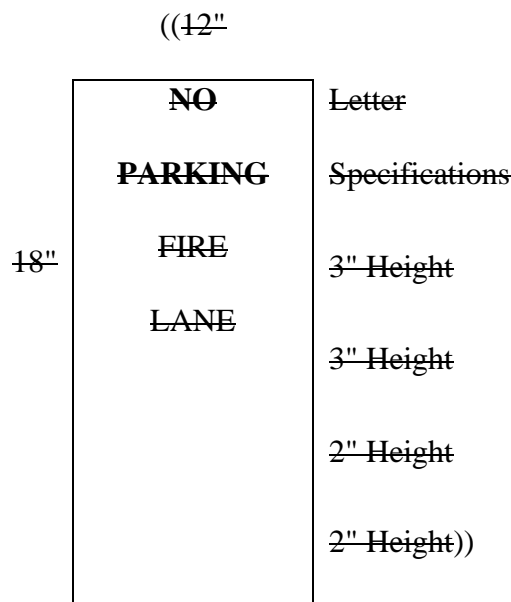
3232 ~~((B-))~~ 2. Definition of ~~((F))~~fire ~~((L))~~lanes. The area within any public right of
3233 way, easement~~((,))~~ or on private property designated for the purpose of ~~((permitting))~~
3234 allowing fire trucks and other fire fighting or emergency equipment to use, travel
3235 upon~~((,))~~ and park.

3236 ~~((C-))~~ 3. Marking of ~~((F))~~fire ~~((L))~~lanes. All designated fire lanes shall be clearly
3237 marked ~~((in the following manner))~~ as follows:

3238 3.1. Vertical curbs ~~((6 inch))~~ shall be painted ~~((yellow))~~ red on the top and
3239 side, extending the length of the designated fire lane. The pavement adjacent to the
3240 painted curbs shall be marked with minimum 18 inch in height block lettering with a
3241 minimum 3- inch brush stroke reading: "NO PARKING - FIRE LANE." Lettering shall
3242 be ~~((yellow))~~ white and spaced at 50 foot or portion thereof intervals~~((, or))~~;

3243 3.2. Rolled curbs or surface without curbs shall have a ~~((yellow))~~ red 6~~((-))~~-inch
3244 wide stripe painted extending the length of the designated fire lane. The surface adjacent
3245 to the stripe shall be marked with minimum 18 inch in height block lettering with a
3246 minimum 3~~_~~ inch brush stroke reading: "NO PARKING - FIRE LANE." Lettering shall
3247 be in ~~((yellow))~~ white and spaced at 50 ft. or portion thereof intervals~~((,;))~~; or

3248 3.3. Fire lane signs shall be installed ~~((per the illustration))~~ as follows:



3249 a. ~~((Reflective in nature.))~~ Signs shall be a type "R8-31" reflective sign or of an
3250 equivalent reflectivity.

3251 b. Red letters on white background with the wording:

3252 "NO PARKING

3253 FIRE LANE"

3254 c. Signs ~~((to be spaced 50 feet or portion thereof apart and posted on or~~
3255 immediately next to the curb)) shall be no less than 12 inches by 18 inches in size and
3256 shall be placed at a maximum center-to-center spacing of 150 feet on both sides of the
3257 fire lane, or an additional sign may be put beneath the fire lane sign lettered as:

3258 "BOTH SIDES"

3259 d. ~~((Top of signs to be not less than 4 feet nor more than 6 feet from the~~
3260 ~~ground.)) Signs shall be posted at a minimum height of 7 feet measured from the road or
3261 sidewalk to the bottom of the sign, unless required otherwise by this section.~~

3262 e. Signs may be placed on a fence or building when approved by the fire
3263 marshal ~~((as the designee of the department of local services permitting division~~
3264 ~~manager)). When signs are wall or fence mounted, they shall be posted at a minimum
3265 height of 5 feet measured from the road or sidewalk to the top of the sign.~~

3266 f. When posts are required, they shall ~~((be a minimum of 2 inch galvanized~~
3267 ~~steel or 4 inch x 4 inch pressure treated wood)) meet current road standards in K.C.C.
3268 chapter 14.42. Signs ((to)) shall be placed so they face the direction of the vehicular
3269 travel.~~

3270 g. Sign numbers and spacing may be modified by the King County fire
3271 marshal.

3272 ~~((D:))~~ 4. Obstruction of Fire Lanes Prohibited. Unless required otherwise by this
3273 chapter, ((F))the obstruction of a designated fire lane by a parked vehicle or any other
3274 object is prohibited, shall constitute a traffic hazard as defined in state law and an
3275 immediate hazard to life and property.

3276 ~~((E:))~~ 5. Alternate ((M))materials and ((M))methods. The fire marshal ((as
3277 designee of the department of local services permitting division manager)) may modify
3278 any of the provisions ((herein)) of this section where practical difficulties exist. The
3279 particulars of a modification ((shall be granted)) that are approved by the fire marshal
3280 ((and)) shall be entered into the final records ((of the office)) for the project permit.

3281 ~~((F-))~~ 6. Existing fire lane signs and markings.

3282 6.1. Signs ~~((f))~~ that are a minimum 9 inches by 16 inches~~((t))~~ may be allowed to
3283 remain until there is a need for replacement and at that time a 12 inch ~~((x))~~ by 18 inch
3284 sign shall be installed.

3285 6.2. Markings may be allowed to remain until there is a need for repainting
3286 ~~((and at that time the provisions outlined in Section C, 1, 2 or 3 shall be complied with)).~~
3287 When markings are repainted, they shall comply with subsection 3. of this section.

3288 ~~((G-))~~ 7. Maintenance. Fire lane markings shall be maintained at the expense of
3289 the property owner~~((s))~~ as often as needed to clearly identify the designated area as
3290 being a fire lane.

3291 ~~((H-))~~ 8. Towing notification. At each entrance to property where fire lanes have
3292 been designated, signs shall be posted in a clearly conspicuous location and shall clearly
3293 state that vehicles parked in fire lanes may be impounded, and the name, telephone
3294 number~~((;))~~ and address of the towing firm where the vehicle may be ~~((redeemed))~~
3295 collected.

3296 ~~((I-))~~ 9. Property owner responsible. The owner, manager~~((;))~~ or person in charge
3297 of any property upon which designated fire lanes have been established shall prevent the
3298 parking of vehicles or placement of other obstructions in such fire lanes.

3299 ~~((J-))~~ 10. Violation - Civil infraction. Any person who fails to mark or maintain
3300 the marking of a designated fire lane as prescribed in this chapter, or who parks a vehicle
3301 in, allows the parking of a vehicle in, obstructs~~((;))~~ or allows the obstruction of a
3302 designated fire lane, commits a civil infraction to which the provisions of ~~((RCW))~~
3303 chapter 7.80 RCW shall apply. The penalty for failing to mark or maintain the marking

3304 of a designated fire lane shall be one hundred and fifty dollars. The penalty for parking a
3305 vehicle in, allowing the parking of a vehicle in, obstructing((;)) or allowing the
3306 obstruction of a designated fire lane shall be fifty dollars.

3307 ~~((K-))~~ 11. Violation - Civil ~~((P))~~penalty. In addition to, or as an ~~((alternate))~~
3308 alternative to, the provisions of subsection ~~((E))~~ 10. of this section, any person who fails
3309 to meet the provisions of the fire lane requirements codified in this title shall be subject to
3310 civil penalties in conformance with K.C.C. ~~((Chapter))~~ Title 23.

3311 ~~((L-))~~ 12. Impoundment. Any vehicle or object obstructing a designated fire lane
3312 is hereby declared a traffic hazard and may be abated without prior notification to its
3313 owner by impoundment ~~((pursuant to))~~ in accordance with the applicable state law.

3314 NEW SECTION. SECTION 173. There is hereby added to K.C.C. chapter 17.04
3315 a new section to read as follows:

3316 Section 503.6 of the International Fire Code is not adopted and the following is
3317 substituted.

3318 **Security gates, bollards or other obstructions (IFC 503.6).**

3319 1. The installation of security gates, bollards or other obstructions across a fire
3320 apparatus access road shall not be allowed unless ~~((reviewed and))~~ approved by the fire
3321 marshal. The use of directional-limiting devices, such as tire spikes, is prohibited.

3322 Where security gates, bollards or other obstructions are installed, they shall have an
3323 approved means of emergency operation. The security gates, bollards or other
3324 obstructions and the emergency operation shall be maintained so that they are operational
3325 at all times.

3326 2. Electric gate operators shall be listed in accordance with Underwriter
3327 Laboratories (UL) 325. Gates intended for automatic operation shall be designed,
3328 constructed and installed to comply with the requirements of American Society for
3329 Testing and Materials (ASTM) F 2200 and shall be equipped with equipment approved
3330 by the fire marshal that allows for operation of the gate by fire and police personnel from
3331 their vehicle.

3332 3. Gates shall be at a minimum as wide as the required fire apparatus access road
3333 width. Gates, bollards or other obstructions on commercial properties shall be set back at
3334 least 30 feet from roadway edge of pavement. Where a fence is provided on each side of
3335 a gate for a commercial property, an access door shall be provided at an approved
3336 location with a secure key box that is approved by the fire marshal.

3337 **EXCEPTION:** Automated gates with equipment approved by the fire marshal
3338 that allow for operation of the gate by fire and police personnel from their vehicle are not
3339 required to be set back 30 feet from the roadway edge of pavement if the roadway is not a
3340 principal or collector arterial or a ~~((street))~~ road with lane markers.

3341 NEW SECTION. SECTION 174. There is hereby added to K.C.C. chapter 17.04
3342 a new section to read as follows:

3343 Section 504.3 of the International Fire Code is supplemented with the following:

3344 **Roof hatches (IFC 504.3.1).** All required interior stairways that extend to the top
3345 floor in any building four or more stories in height shall have, at the highest point of the
3346 stair shaft, an approved hatch that can open to the exterior not less than 16 square feet
3347 (1.5m²) in area and having a minimum dimension of 3 feet (914mm).

3348 **EXCEPTION:** A roof hatch is not required for stairways that extend to the roof
3349 with an opening onto that roof or for stairways that comply with International Building
3350 Code Section 1011.12.2.

3351 NEW SECTION. SECTION 175. There is hereby added to K.C.C. chapter 17.04
3352 a new section to read as follows:

3353 Section 504 of the International Fire Code is supplemented with the following:

3354 **Buildings with enclosed interior courtyards (IFC 504.5).** New buildings with
3355 enclosed interior courtyards shall have a straight, direct access corridor or stairway or
3356 both from the exterior to the courtyard at a location acceptable to the fire marshal.
3357 Stairways shall comply with IFC 1011 and corridors shall comply with IFC 1020. The
3358 access shall have a minimum width of 4 feet, or an alternative width as directed by the
3359 fire marshal, and be large enough to carry a 35-foot-long sectional ladder, with a
3360 minimum folded length of 20 feet, directly from the exterior to the courtyard without
3361 obstructions. The access door shall be marked at the ~~((street))~~ road as "Direct access to
3362 courtyard."

3363 SECTION 176. Ordinance 14915, Section 56, and K.C.C. 17.04.450 are hereby
3364 amended to read as follows:

3365 Section 505.1 of the International Fire Code is not adopted and the following is
3366 substituted:

3367 **Premises identification – Addresses (IFC 505.1).** Approved numbers or
3368 addresses shall be provided for all new and existing buildings ~~((in such a position as to be~~
3369 ~~plainly visible and legible from the street or road fronting the property))~~ in accordance
3370 with K.C.C. chapter 16.08.

3371 NEW SECTION. SECTION 177. There is hereby added to K.C.C. chapter 17.04
3372 a new section to read as follows:

3373 Section 507.1 of the International Fire Code is supplemented with the following:

3374 **Required water supply (IFC 507.1.1).** Underground piping shall conform to the
3375 following requirements:

3376 1. All underground piping shall be designed, constructed and installed in
3377 accordance with NFPA 24 for private fire service mains and NFPA 13 for water-based
3378 fire protection systems. Two forms of joint restraint shall be used.

3379 2. Piping systems under the control of a water district or city utilities department
3380 shall be installed in accordance with said Utilities Engineering Standard. The fire
3381 marshal shall be responsible for determining hydrant spacing and location connecting to
3382 these systems.

3383 NEW SECTION. SECTION 178. There is hereby added to K.C.C. chapter 17.04
3384 a new section to read as follows:

3385 Section 510.1 of the International Fire Code is not adopted and the following is
3386 substituted:

3387 **Emergency responder radio coverage in new buildings (IFC 510.1).** New
3388 buildings meeting the conditions of this section shall have an approved radio coverage
3389 system for emergency responders installed in accordance with IFC 510.4 through 510.5.5
3390 and NFPA 1221. Radio coverage is based upon the existing coverage levels of the public
3391 safety communication systems of the jurisdiction at the exterior of the building. This
3392 section shall not require improvements of the existing public safety communication

3393 system. An approved radio coverage system shall be provided within new buildings
3394 meeting any of the following conditions:

- 3395 1. High-rise buildings;
- 3396 2. The total building area is 50,000 square feet or more;
- 3397 3. The total basement area is 10,000 square feet or more;
- 3398 4. There are floors used for human occupancy more than 30 feet below the
3399 finished floor of the lowest level of exit discharge; or
- 3400 5. Buildings or structures where the fire marshal determines, in consultation with
3401 the fire chief, that in-building radio coverage is critical because of its unique design,
3402 location, use or occupancy.

3403 **EXCEPTIONS:**

- 3404 1. Buildings and areas of buildings that have minimum radio coverage signal
3405 strength levels of the public safety radio operator within the building in accordance with
3406 IFC 510.4.1 without the use of a radio coverage system.
- 3407 2. In facilities where emergency responder radio coverage is required and such
3408 systems, components or equipment required could have a negative impact on the normal
3409 operations of that facility, the fire marshal shall have the authority to accept an
3410 automatically activated emergency responder radio coverage system.
- 3411 3. One- and two-family dwellings and townhouses.
- 3412 4. Where it is determined by the fire marshal that the radio coverage system is
3413 not needed.

3414 NEW SECTION. SECTION 179. There is hereby added to K.C.C. chapter 17.04
3415 a new section to read as follows:

3416 Section 510.4.1 of the International Fire Code is not adopted and the following is
3417 substituted:

3418 **Emergency responder communication enhancement system signal strength**

3419 **(IFC 510.4.1).** A building shall be considered to have acceptable emergency responder
3420 communications enhancement system coverage when the following conditions are met:

3421 1. Emergency responder communications enhancement system signal strength
3422 measurements in 95 percent of all areas on each floor of the building meet the signal
3423 strength requirements in IFC 510.4.1.1 through 510.4.1.3; and

3424 2. Critical fire service areas shall have 99 percent floor area radio coverage.

3425 NEW SECTION. SECTION 180. There is hereby added to K.C.C. chapter 17.04
3426 a new section to read as follows:

3427 Section 510.4.1.2 of the International Fire Code is not adopted and the following
3428 is substituted:

3429 **Minimum signal strength out of the building (IFC 510.4.1.2).** The minimum
3430 outbound signal strength shall be sufficient to provide usable voice communications
3431 throughout the coverage area as specified by the fire marshal. The outbound signal level
3432 shall be sufficient to provide not less than a DAQ of 3.4 or an equivalent SINR applicable
3433 to the technology for either analog or digital signals. A minimum signal strength of -100
3434 dBm shall be received by the public safety radio operator when transmitted from within
3435 the building.

3436 NEW SECTION. SECTION 181. There is hereby added to K.C.C. chapter 17.04
3437 a new section to read as follows:

3438 Section 510.4.2.1 of the International Fire Code is not adopted and the following
3439 is substituted:

3440 **Amplification systems and components (510.4.2.1).** Buildings and structures
3441 that cannot support the required level of radio coverage shall be equipped with systems
3442 and components to enhance the public safety radio signals and achieve the required level
3443 of radio coverage specified in IFC 510.4.1 through 510.4.1.3. Public safety
3444 communications enhancement systems utilizing radio-frequency-emitting devices and
3445 cabling shall be approved by the fire code marshal. Prior to activating rebroadcasting of
3446 public safety frequencies, all RF-emitting devices shall obtain an executed rebroadcast
3447 agreement from the public safety radio system operator and be suitable for public safety
3448 use.

3449 NEW SECTION. SECTION 182. There is hereby added to K.C.C. chapter 17.04
3450 a new section to read as follows:

3451 Section 510.4.2.4 of the International Fire Code is not adopted and the following
3452 is substituted:

3453 **Signal booster requirements (IFC 510.4.2.4).**

3454 1. All signal booster components shall be contained in a National Electrical
3455 Manufacturer's Association (NEMA) 4-type, IP65 or IP66 waterproof cabinet or
3456 equivalent.

3457 **EXCEPTION:** Listed battery systems that are contained in integrated battery
3458 cabinets.

3459 2. Battery systems used for the emergency power source shall be contained in a
3460 NEMA 3R or higher-rated cabinet, IP14-type waterproof cabinet or equivalent.

3461 3. Equipment shall have FCC or other radio licensing authority certification and
3462 be suitable for public safety use before installation.

3463 4. Where a donor antenna exists, isolation shall be maintained between the donor
3464 antenna and all inside antennas to not less than 20dB more than the system gain under all
3465 operating conditions.

3466 5. Active RF emitting devices used in emergency responder radio coverage
3467 systems shall have built-in oscillation detection and control circuitry.

3468 6. The installation of amplification systems or systems that operate on or provide
3469 the means to cause interference on any emergency responder radio coverage networks
3470 shall be coordinated and approved by the fire marshal and the public safety radio
3471 operator.

3472 7. Unless otherwise approved by the fire marshal, only channelized signal
3473 boosters shall be permitted. Channelized signal boosters shall comply with operating
3474 requirements of the public safety radio operator, including the capacity of supporting a
3475 minimum of 28 channels and 800 MHz analog and digital operation including P25 Phase
3476 I frequency division multiple access (FDMA) and P25 Phase II time division multiple
3477 access (TDMA).

3478 NEW SECTION. SECTION 183. There is hereby added to K.C.C. chapter 17.04
3479 a new section to read as follows:

3480 Section 510.4.2.5 of the International Fire Code is not adopted and the following
3481 is substituted:

3482 **System monitoring (IFC 510.4.2.5).** The emergency responder radio
3483 enhancement system shall include automatic supervisory and trouble signals that are

3484 monitored by a supervisory service and are annunciated by the fire alarm system in
3485 accordance with NFPA 1221. The following conditions shall be separately annunciated
3486 by the fire alarm system or, if the status of each of the following conditions is
3487 individually displayed on a dedicated panel on the radio enhancement system, a single
3488 automatic supervisory signal may be annunciated on the fire alarm system indicating
3489 deficiencies of the radio enhancement system:

- 3490 1. Loss of normal AC power supply.
- 3491 2. System battery charger(s) failure.
- 3492 3. Malfunction of the donor antenna(s).
- 3493 4. Failure of active RF-emitting device(s).
- 3494 5. Low-battery capacity at 70-percent reduction of operating capacity.
- 3495 6. Active system component malfunction.
- 3496 7. Malfunction of the communications link between the fire alarm system and the
3497 emergency responder radio enhancement system.

3498 NEW SECTION. SECTION 184. There is hereby added to K.C.C. chapter 17.04
3499 a new section to read as follows:

3500 Section 510.5.1 of the International Fire Code is not adopted and the following is
3501 substituted:

3502 **Approval prior to installation (IFC 510.5.1).** Amplification systems capable of
3503 operating on frequencies licensed to any public safety agency by the FCC or other radio
3504 licensing authority shall not be activated to rebroadcast without prior coordination and
3505 approval of the fire marshal and public safety radio system operator.

3506 NEW SECTION. SECTION 185. There is hereby added to K.C.C. chapter 17.04
3507 a new section to read as follows:

3508 Section 510.5.2 of the International Fire Code is not adopted and the following is
3509 substituted:

3510 **Minimum qualifications of personnel (IFC 510.5.2).** The minimum
3511 qualifications of the system designer and lead installation personnel shall include the
3512 following:

- 3513 1. A valid FCC-issued general radiotelephone operators license; and
- 3514 2. Certification of in-building system training issued by an organization or school
3515 approved by the fire marshal, or a certificate issued by the manufacturer of the equipment
3516 being installed.

3517 NEW SECTION. SECTION 186. There is hereby added to K.C.C. chapter 17.04
3518 a new section to read as follows:

3519 Section 510.5.3 of the International Fire Code is not adopted and the following is
3520 substituted:

3521 **Acceptance test procedure (IFC 510.5.3).** Where an emergency responder radio
3522 coverage system is required, and upon completion of installation, the building owner
3523 shall have the radio system tested to verify that two-way coverage on each floor of the
3524 building in accordance with IFC 510.4.1. The test procedure shall be conducted as
3525 follows:

- 3526 1. Each floor of the building shall be divided into a grid of 20 approximately
3527 equal test areas, with a maximum test area size of 6,400 square feet. Where the floor area

3528 exceeds 128,000 square feet, the floor shall be divided into as many approximately equal
3529 test areas as needed, such that no test area exceeds the maximum square footage allowed.

3530 2. Coverage testing of signal strength shall be conducted using a calibrated
3531 spectrum analyzer for each of the test grids. A diagram of this testing shall be created for
3532 each floor where coverage is provided, indicating the testing grid used for the test in IFC
3533 510.5.3(1), and including inbound signal strengths and frequencies for each test area.

3534 The diagram shall indicate all critical fire service areas.

3535 3. Functional talk-back testing shall be conducted using two calibrated portable
3536 radios of the latest brand and model used by the agency's radio communications system
3537 or other equipment approved by the fire marshal. Testing shall use Digital Audible
3538 Quality (DAQ) metrics, where a passing result is a DAQ of 3.4 or higher.
3539 Communications between handsets shall be tested and recorded in the grid square
3540 diagram required by IFC 510.5.3(2): each grid square on each floor; between each
3541 critical fire service area and a radio outside the building; between each critical fire service
3542 area and the fire command center or fire alarm control panel; and between each landing
3543 in each stairwell and the fire command center or fire alarm control panel.

3544 4. Failure of more than five percent of the test areas on any floor shall result in
3545 failure of the test.

3546 **EXCEPTION:** Critical fire service areas shall be provided with 99 percent floor
3547 area coverage.

3548 5. If two of the test areas fail the test, and to be more statistically accurate, the
3549 floor shall be permitted to be divided into 40 equal test areas. Failure of not more than

3550 two nonadjacent test areas shall not result in failure of the test. If the system fails the 40-
3551 area test, the system shall be altered to meet the 95 percent coverage requirement.

3552 6. A test location approximately in the center of each test area shall be selected
3553 for the test, with the radio enabled to verify two-way communications to and from the
3554 outside of the building through the public agency's radio communications system. Once
3555 the test location has been selected, that location shall represent the entire test area.

3556 Failure in the selected test location shall be considered to be a failure of that test area.

3557 Additional test locations shall not be permitted.

3558 7. The gain values of all amplifiers shall be measured, and the test measurement
3559 results shall be kept on file with the building owner so that the measurements can be
3560 verified during annual tests. If the measurement results become lost, the building owner
3561 shall be required to rerun the acceptance test to reestablish the gain values.

3562 8. As part of the installation, a spectrum analyzer or other suitable test equipment
3563 shall be used to ensure spurious oscillations are not being generated by the subject signal
3564 booster. This test shall be conducted at the time of installation and at subsequent annual
3565 inspections.

3566 9. Systems incorporating Class B signal booster devices or Class B broadband
3567 fiber remote devices shall be tested using two portable radios simultaneously conducting
3568 subjective voice quality checks. One portable radio shall be positioned not more than 10
3569 feet (3,048 mm) from the indoor antenna. The second portable radio shall be positioned
3570 at a distance that represents the farthest distance from any indoor antenna. With both
3571 portable radios simultaneously keyed up on different frequencies within the same band,

3572 subjective audio testing shall be conducted and comply with DAQ levels as specified in
3573 IFC 510.4.1.1 and 510.4.1.2.

3574 10. At the conclusion of the testing, and before issuance of the building
3575 certificate of occupancy, the building owner or owner's representative shall place a copy
3576 of the following records in the DAS enclosure or the main building office. The
3577 following records shall be available to the fire marshal and maintained by the building
3578 owner for the life of the system:

3579 a. A certification letter stating that the emergency responder radio coverage
3580 system has been installed and tested in accordance with this code, and that the system is
3581 complete and fully functional.

3582 b. The grid square diagram created as part of testing in IFC 510.5.3(2) and
3583 510.5.3(3).

3584 c. Data sheets and manufacturer specifications for the emergency responder
3585 radio coverage system equipment, back up battery and charging system, if used.

3586 d. A diagram showing device locations and wiring schematic.

3587 e. A copy of the electrical permit.

3588 11. At the conclusion of testing, and before issuance of the building certificate of
3589 occupancy, the building owner or owner's representative shall submit to the fire marshal a
3590 report of the acceptance test.

3591 NEW SECTION. SECTION 187. There is hereby added to K.C.C. chapter 17.04
3592 a new section to read as follows:

3593 Section 510.5 of the International Fire Code is supplemented with the following:

3594 **Wiring (IFC 510.5.6).** The backbone, antenna distribution, radiating or any
3595 fiber-optic cables or other system interconnection cables shall be rated as plenum cables.
3596 The backbone cables shall be connected to the antenna distribution, radiating or copper
3597 cables using hybrid coupler devices of a value determined by the overall design.
3598 Backbone cables, and the connection between backbone cables and antenna cables, shall
3599 be routed through an enclosure that matches the building's required fire-resistance rating
3600 for shafts or interior exit stairways. Passage of the antenna distribution cable in and out
3601 of the enclosure shall be protected as a penetration under the International Building Code.

3602 NEW SECTION. SECTION 188. There is hereby added to K.C.C. chapter 17.04
3603 a new section to read as follows:

3604 Section 510.5 of the International Fire Code is supplemented with the following:

3605 **Identification Signs (IFC 510.5.7).** Emergency responder radio coverage
3606 systems shall be identified by an approved sign located on or near the Fire Alarm Control
3607 Panel, or other approved location, stating "This building is equipped with an Emergency
3608 Responder Radio Coverage System. Control Equipment located in room____." A sign
3609 stating "Emergency Responder Radio Coverage System Equipment" shall be placed on or
3610 adjacent to the door of the room containing the main system components.

3611 NEW SECTION. SECTION 189. There is hereby added to K.C.C. chapter 17.04
3612 a new section to read as follows:

3613 Section 510.6.1 of the International Fire Code is not adopted and the following is
3614 substituted:

3615 **Testing and proof of compliance (510.6.1).** The owner of the building or
3616 owner's authorized agent shall have the emergency responder radio coverage system be

3617 inspected and tested annually or when structural changes occur, including additions or
3618 remodels that could materially change the original field performance tests. Testing shall
3619 consist of the following:

3620 1. In-building coverage test as required by the fire marshal and as described in
3621 IFC 510.5.3 or IFC 510.6.1.

3622 **EXCEPTION:** Group R Occupancy annual testing is not required within
3623 dwelling units.

3624 2. Signal boosters shall be tested to verify that the gain or output level is the same
3625 as it was upon initial installation and acceptance or set to optimize the performance of the
3626 system. Altering of the distributed antenna systems (DAS) output from the initial
3627 commissioning values shall require revalidation by the public safety radio operator.

3628 3. Backup batteries and power supplies shall be tested under load of a period of
3629 one hour to verify that they will properly operate during an actual power outage. If
3630 within the one-hour test period the battery exhibits symptoms of failure, the test shall be
3631 extended for additional one-hour periods until the integrity of the battery can be
3632 determined.

3633 4. If a fire alarm system is present in the building, a test shall be conducted to
3634 verify that the fire alarm system is properly supervising the emergency responder
3635 communication system as required in IFC 510.4.2.5. The test is performed by simulating
3636 alarms to the fire alarm control panel. The certifications in IFC 510.5.2 are sufficient for
3637 the personnel performing this testing.

3638 5. Other active components shall be checked to verify operation within the
3639 manufacturer's specifications.

3640 6. At the conclusion of the testing, a report, which shall verify compliance with
3641 IFC 510.6.1, shall be submitted to the fire marshal.

3642 7. At the conclusion of testing, a record of the inspection and maintenance along
3643 with an updated grid diagram of each floor showing tested strengths in each grid square
3644 and each critical fire service area shall be added to the documentation maintained on the
3645 premises in accordance with IFC 510.5.3.

3646 NEW SECTION. SECTION 190. There is hereby added to K.C.C. chapter 17.04
3647 a new section to read as follows:

3648 Section 510.6.1 of the International Fire Code is supplemented with the
3649 following:

3650 **Alternative acceptance test procedure. (IFC 510.6.1.1).** When the
3651 comprehensive test documentation required by IFC 510.5.3 is available, or the most
3652 recent five-year test results are available if the system is older than six years, the in-
3653 building coverage test required by IFC 510.6.1(1) may be conducted as follows:

3654 1. Functional talk-back testing shall be conducted using two calibrated portable
3655 radios of the latest brand and model used by the agency's radio communications system
3656 or other equipment approved by the fire marshal. Testing shall use Digital Audible
3657 Quality (DAQ) metrics, where a passing result is a DAQ of 3.4 or higher.

3658 Communications between handsets in the following locations shall be tested: between the
3659 fire command center or fire alarm control panel and a location outside the building; and
3660 between the fire alarm control panel and each landing in each stairwell.

3661 2. Coverage testing of signal strength shall be conducted using a calibrated
3662 spectrum analyzer for:

3663 a. The three grid areas to be tested on each floor are the three grid areas with
3664 poorest performance in the acceptance test or the most recent annual test, whichever is
3665 more recent;

3666 b. Each of the critical fire service areas identified in acceptance test
3667 documentation required by IFC 510.5.3 or as modified by the fire marshal; and

3668 c. One grid square per serving antenna.

3669 3. The test area boundaries shall not deviate from the areas established at the time
3670 of the acceptance test or as modified by the fire marshal. The building shall be
3671 considered to have acceptable emergency responder radio coverage when the required
3672 signal strength requirements in IFC 510.4.1.1 and 510.4.1.2 are located in 95 percent of
3673 all areas on each floor of the building and 99 percent in critical fire service areas, and any
3674 non-functional serving antenna are repaired to function within normal ranges. If the
3675 documentation of the acceptance test or most recent previous annual test results are not
3676 available or acceptable to the fire marshal, the radio coverage verification testing
3677 described in IFC 510.5.3 shall be conducted.

3678 NEW SECTION. SECTION 191. There is hereby added to K.C.C. chapter 17.04
3679 a new section to read as follows:

3680 Section 510.6.4 of the International Fire Code is not adopted and the following is
3681 substituted:

3682 **Field Testing (IFC 510.6.4).** Department personnel shall have the right to enter
3683 onto the property at any reasonable time to conduct field testing to verify the required
3684 level of radio coverage or to disable a system that, due to malfunction or poor

3685 maintenance, has the potential to impact the emergency responder radio system in the
3686 region.

3687 NEW SECTION. SECTION 192. There is hereby added to K.C.C. chapter 17.04
3688 a new section to read as follows:

3689 Section 901.1 of the International Fire Code is not adopted and the following is
3690 substituted:

3691 **Scope (IFC 901.1).** This chapter specifies where fire protection and life safety
3692 systems are required and applies to the design, installation, inspection, operation, testing
3693 and maintenance of fire protection systems.

3694 **1. ADDITIONAL REQUIREMENTS.**

3695 1.1. The fire marshal retains the authority under the IFC to impose additional
3696 conditions, including but not limited to increased setbacks, use of fire retardant materials
3697 or standpipes where determined necessary to mitigate identified fire protection impacts.

3698 1.2. This chapter applies to all buildings or structures undergoing a substantial
3699 improvement as defined in K.C.C. chapter 21A.06.

3700 1.3. Any additions to an existing building or structure shall be considered new
3701 construction and subject the entire structure to the provisions of this chapter.

3702 1.4. All condominiums shall have the following wording in the recorded
3703 Declaration of Covenants and a copy of the document shall be provided to the fire
3704 marshal:

3705 1.4.1 If any unit is equipped with a sprinkler system, nothing shall be hung
3706 from the sprinklers comprising a part of the system nor shall any such sprinklers be
3707 painted, covered or otherwise changed, tampered with or altered.

3708 1.4.2. Before any alteration, amendment, modification or change thereof, the
3709 owners or their agents shall submit such alteration, amendment, modification or change
3710 to the fire marshal for approval and agree to comply with all applicable sprinkler
3711 requirements.

3712 SECTION 193. Ordinance 12560, Section 171, as amended, and K.C.C.
3713 17.04.520 are hereby amended to read as follows:

3714 Section 903.1 of the International Fire Code is not adopted and the following is
3715 substituted:

3716 **General (IFC 903.1).**

3717 1. An automatic fire-extinguishing system shall be installed in the occupancies
3718 and locations ~~((as set forth))~~ in ~~((Section))~~ accordance with IFC 903.2.

3719 For provisions on special hazards and hazardous materials, see ~~((Section))~~ IFC
3720 901.4.((3))4.

3721 2. The provisions of this section shall apply to all buildings ~~((whose county~~
3722 ~~assessed value has increased by more than 50% within a five year period due to the added~~
3723 ~~value of alterations and repairs. When the first permit application is submitted to add to,~~
3724 ~~alter or repair an existing building, the county assessed value of the building at the time~~
3725 ~~the complete application is submitted shall be considered the base county assessed value~~
3726 ~~for the following five year period))~~ undergoing a substantial improvement as defined in
3727 K.C.C. chapter 21A.06.

3728 ~~((EXCEPTION: Structures damaged as a result of a disaster declared in~~
3729 ~~accordance with K.C.C. chapter 12.52, shall comply with K.C.C. 17.04.610 and~~
3730 ~~17.04.620.))~~

3731 3. Any additions to an existing structure shall be considered new construction and
3732 subject the entire structure to the provisions of this section.

3733 **EXCEPTION((S)):** A one-time exemption for buildings regulated by the
3734 International Residential Code ((~~One and Two Family Dwellings will~~)) shall be allowed
3735 for a single addition not to exceed 500 square feet, unless sprinklers or other fire
3736 protection systems are required by other statutes.

3737 4. All condominiums shall have the following wording in the recorded
3738 Declaration of Covenants and a copy of the document shall be provided to the fire ((~~code~~
3739 ~~official or designee~~)) marshal:

3740 4.1. ((~~In the event that a~~)) If any unit ((~~should be~~)) is equipped with a sprinkler
3741 system, nothing shall be hung from the sprinklers comprising a part of the system nor
3742 shall any such sprinklers be painted, covered((~~;~~)) or otherwise changed, tampered with or
3743 altered.

3744 4.2. ((~~Prior to~~)) Before any alteration, amendment, modification or change
3745 thereof, the owners or their agents ((~~will~~)) shall submit such alteration, amendment,
3746 modification or change to the ((~~King County~~)) fire marshal ((~~or designee~~)) for approval
3747 and agrees to comply with all applicable sprinkler requirements.

3748 SECTION 194. Ordinance 14111, Section 215, as amended, and K.C.C.
3749 17.04.540 are hereby amended to read as follows:

3750 Section 903.2 of the International Fire Code is not adopted and the following is
3751 substituted:

3752 **Where required (IFC 903.2).** Sprinklers are required as follows:

3753 1. For residential units and their accessory structures built under the International
3754 Residential Code, sprinklers shall be installed ~~((as set forth))~~ in ~~((Section))~~ accordance
3755 with IFC 903.2.1((3))1.

3756 2. For all other occupancies an automatic sprinkler system shall be installed in
3757 ~~((the))~~ locations ~~((set forth))~~ in ~~((Section))~~ in accordance with IFC 903.2.1 through
3758 ~~((Section))~~ 903.2.12.

3759 **EXCEPTION:** Spaces or areas in telecommunications buildings used
3760 exclusively for telecommunications equipment, associated electrical power distribution
3761 equipment, batteries and standby engines, ~~((provided))~~ if those spaces or areas are
3762 equipped throughout with an automatic smoke detection system in accordance with
3763 ~~((Section))~~ IFC 907.2 and are separated from the remainder of the building by not less
3764 than 1-hour fire barriers constructed in accordance with ~~((Section))~~ IFC 707 or not less
3765 than 2-hour horizontal assemblies constructed in accordance with ~~((Section))~~ IFC 711, or
3766 both.

3767 ~~((3. Sprinklers are required in all occupancies requiring 2,000 gallons per minute~~
3768 ~~or more fire flow, or where the total floor area included within the surrounding exterior~~
3769 ~~walls on all floor levels including basements exceeds 10,000 square feet.))~~

3770 SECTION 195. Ordinance 12560, Section 174, as amended, and K.C.C.
3771 17.04.560 are hereby amended to read as follows:

3772 Section 903.2.11 of the International Fire Code is supplemented with the
3773 following:

3774 ~~((Residential units and accessory))~~ Habitable space of structures built under
3775 the IRC (IFC 903.2.11.((7))8). An automatic sprinkler system shall be installed in the

3776 habitable space of structures built under the International Residential Code (IRC) ((as
3777 follows)) when:

3778 1. ~~((The gross floor area exceeds 2,500 square (including attached garages)
3779 without adequate fire flow except as cited in K.C.C. 17.08.030;~~

3780 2. ~~There is no approved fire department access as defined in the King County
3781 road standards and IFC 503, as amended; or~~

3782 3. ~~If 2,000))~~ There is no approved fire access as defined in K.C.C. Title 14 and
3783 IFC 503;

3784 2. The structure has a total floor area, including basements, that exceed 10,000
3785 square feet; or:

3786 3. There is not:

3787 3.1 A minimum fire flow of 1,000 gallons per minute (~~or more fire flow is
3788 required or where the total floor area included within the surrounding exterior walls on all
3789 floor levels including basements exceeds 10,000 square feet. For townhouses, each unit
3790 is considered a separate building)) as defined in IFC Appendix B; or~~

3791 3.2 A fire hydrant within 400 feet or 600 feet of the property line as outlined in
3792 IFC 507.5.1.

3793 **EXCEPTION**(~~(S: Attached decks, exterior porches and carports open on two
3794 sides.~~

3795 4. ~~Where special hazards or unusual conditions exists in addition to the normal
3796 hazard of the space due to the design, size, volume or use of the space, the Fire Marshal
3797 is authorized to require additional safeguards suitable for the protection of the hazard or
3798 condition involved. Additional safeguards can consist of automatic fire alarm system,~~

3799 ~~automatic sprinkler or water spray system, standpipe and hose, fixed or portable fire~~
3800 ~~extinguishers, or other special fire extinguishing systems. Where such systems are~~
3801 ~~provided, they shall be designed and installed in accordance with the International Fire~~
3802 ~~Code.))~~: Structures are located on lots that:

- 3803 1. Are sized 35,000 square feet or larger;
- 3804 2. Are outside the Urban Growth Area; and
- 3805 .3. Have a residential use as the primary land use.

3806 NEW SECTION. SECTION 196. There is hereby added to K.C.C. chapter 17.04
3807 a new section to read as follows:

3808 Section 903.2 of the International Fire Code is supplemented with the following:

3809 **Specific buildings areas and hazards - Buildings exceeding 10,000 square feet**
3810 **(IFC 903.2.13).** An automatic sprinkler system, installed in accordance with IFC 903.2,
3811 901.4.3 and 901.4.4 shall be provided throughout all buildings where the total floor area,
3812 including basements, exceeds 10,000 square feet. For purposes of this section, portions
3813 of buildings separated by one or more fire walls shall not be considered a separate
3814 building.

3815 Existing buildings shall comply with this section when an addition is made to the
3816 building and the new total floor area, including basements, exceeds 10,000 square feet, or
3817 an existing building exceeding 10,000 square feet is substantially improved as defined in
3818 K.C.C. chapter 21A.06.

3819 NEW SECTION. SECTION 197. There is hereby added to K.C.C. chapter 17.04
3820 a new section to read as follows:

3821 Section 903.3.1 of the International Fire Code is not adopted and the following is
3822 substituted:

3823 **Installation requirements – standards (IFC 903.3.1).** Sprinkler systems shall
3824 be designed and installed in accordance with IFC 903.3.1.1, unless otherwise permitted
3825 by IFC 903.3.1.2, 903.3.1.3 and other chapters of this code, as applicable. In addition,
3826 sprinkler systems shall be designed with a buffer to account for water system fluctuations
3827 to include a low reservoir condition. Such buffer shall be five pounds per square inch
3828 (PSI) for static pressures less than 50 PSI and 10 PSI for static pressures above 50 PSI.
3829 Permit applicants shall independently verify site specific static pressure at the following
3830 intervals:

- 3831 1. Before initiating sprinkler system;
- 3832 2. Before installing sprinkler piping, including the underground supply; and
- 3833 3. Before requesting a cover inspection.

3834 NEW SECTION. SECTION 198. There is hereby added to K.C.C. chapter 17.04
3835 a new section to read as follows:

3836 Section 903.4.3 of the International Fire Code is not adopted and the following is
3837 substituted:

3838 **Floor control valves (IFC 903.4.3).** Approved supervised indicating control
3839 valves shall be provided at the point of connection to the riser on each floor. The floor
3840 control valves shall be located within stair enclosures and within six feet of floors or
3841 landings unless chains or other approved devices are readily available.

3842 **EXCEPTION:** In buildings without stair enclosures, the location of the floor
3843 control valves shall be determined by the fire marshal.

3844 NEW SECTION. SECTION 199. There is hereby added to K.C.C. chapter 17.04
3845 a new section to read as follows:

3846 Section 903.5 of the International Fire Code is not adopted and the following is
3847 substituted:

3848 **Testing and maintenance (IFC 903.5).** Sprinkler systems shall be tested and
3849 maintained in accordance with IFC 901 and the following:

3850 1. Maintenance or testing discharges from a fire sprinkler system, standpipe or
3851 fire pump shall be treated to comply with the National Pollution Discharge Elimination
3852 System requirements.

3853 2. Water drained or otherwise discharged from a fire sprinkler system, standpipe
3854 or fire pump is considered an illicit discharge, and shall drain to the sanitary sewer or be
3855 treated prior to discharge to storm drains, ditches or water bodies.

3856 NEW SECTION. SECTION 200. There is hereby added to K.C.C. chapter 17.04
3857 a new section to read as follows:

3858 Section 905.3.1 of the International Fire Code is not adopted and the following is
3859 substituted:

3860 **Height (IFC 905.3.1).** Class I standpipe systems shall be installed throughout
3861 buildings where any of the following conditions exist:

3862 1. Four or more stories are above or below grade plane.

3863 2. The floor level of the highest story is located more than 30 feet (9144 mm)
3864 above the lowest level of the fire apparatus access.

3865 3. The floor level of the lowest story is located more than 30 feet (9144 mm)
3866 below the highest level of fire apparatus access.

3867 **EXCEPTIONS:**

3868 1. Class II standpipes may be used for hose connections in open parking garages
3869 in accordance with IFC 905.5.

3870 2. In determining the lowest level of fire apparatus access, the following does not
3871 apply:

3872 2.1. Recessed loading docks for four vehicles or less.

3873 2.2. Conditions where topography makes access from the fire apparatus to the
3874 building impractical or impossible.

3875 SECTION 201. Ordinance 14111, Section 211, and K.C.C. 17.04.590 are hereby
3876 amended to read as follows:

3877 Section 912.2 of the International Fire Code is supplemented with the following:

3878 **Distance (IFC 912.2.3).** Fire ~~((department pumper))~~ apparatus connections shall
3879 not be located on a building unless approved by the ~~((F))~~fire ~~((M))~~marshal, and shall be
3880 located within 50 feet of a required fire hydrant.

3881 SECTION 202. Ordinance 5828, Section 3, and K.C.C. 17.08.020 are hereby
3882 amended to read as follows:

3883 A. Subdivisions and short subdivisions are required to be provided with water
3884 mains, and fire hydrants meeting IFC Appendix C, consistent with county standards and
3885 state ~~((d))~~Department of ~~((s))~~Social and ~~((h))~~Health ~~((s))~~Services principles of water
3886 system design as a condition of final plat or short plat approval unless exempt ~~((pursuant~~
3887 ~~to Section))~~ under K.C.C. 17.08.030.

3888 B. All structures or additions thereto erected (~~((pursuant to))~~) under a building
3889 permit (~~((and/or mobile home permit))~~) shall be served by operational water mains and fire
3890 hydrants consistent with county standards (~~((prior to))~~) before:

- 3891 1. the (~~((commencement))~~) start or installation of combustible construction; or
3892 2. (~~((prior to))~~) construction of a second floor if the building is noncombustible,
3893 whichever occurs first, unless exempt (~~((pursuant to Section))~~) under K.C.C. 17.08.030.

3894 C. Mobile home parks and recreational vehicle parks shall be required to provide
3895 water mains and fire hydrants consistent with county standards as a condition of final site
3896 plan approval.

3897 D. Permits or approvals for uses not involving a structure shall be served by
3898 water mains and fire hydrants consistent with county standards.

3899 E. All new water mains and all additions and extensions to existing water mains
3900 shall meet the requirements of this chapter(~~((, provided that))~~) if water mains which serve
3901 only uses exempt (~~((pursuant to Section))~~) under K.C.C. 17.08.030 are also exempt from
3902 the requirements of this chapter.

3903 F. All water purveyor comprehensive plans approved (~~((pursuant to))~~) under
3904 K.C.C. (~~((€))~~)chapter 13.24 shall be consistent with (~~((the provisions of))~~) this chapter.

3905 G. All water mains and fire hydrants shall be served by a water district or water
3906 purveyor in accordance with a current water comprehensive plan approved (~~((pursuant to))~~)
3907 under K.C.C. (~~((€))~~)chapter 13.24, or by other adequate means providing service levels
3908 consistent with the provisions of this (~~((€))~~)chapter.

3909 SECTION 203. Ordinance 5828, Section 4, as amended, and K.C.C. 17.08.030
3910 are hereby amended to read as follows:

3911 A. The following permits and approvals are exempt from the ~~((water))~~ fire flow
3912 and fire hydrant requirements of this ~~((chapter))~~ title. These exemptions do not exempt any
3913 development from compliance with the requirements of state law.

3914 1. Subdivisions and short subdivisions located outside ~~((an))~~ the Urban Growth
3915 Area ~~((designated by the King County Comprehensive Plan))~~ and that do not contain a lot
3916 less than thirty-five thousand square feet in size.

3917 2. Building permits for ~~((single family, duplex detached dwellings and mobile
3918 home permits for mobile homes not in mobile home parks,))~~ buildings with one or two
3919 dwelling units located outside ~~((an))~~ the Urban Growth Area ~~((designated by the King
3920 County Comprehensive Plan))~~, only if the lot is at least thirty-five thousand square feet in
3921 size.

3922 3. ~~(())~~ Building permits for structures classified as Group U occupancies under the
3923 International Building Code that conform to the definition of agricultural buildings in
3924 Appendix C of the International Building Code, only if the structures are located outside
3925 ~~((an))~~ the Urban Growth Area ~~((designated by the King County Comprehensive Plan))~~.

3926 4. Building permits for structures that are:

3927 a. ~~((do not exceed))~~ two-thousand-five hundred square feet in floor area,

3928 ~~(())~~excluding garages, ~~(())~~ or less;

3929 b. ~~((are))~~ served by a Group B water system; and

3930 c. ~~((are))~~ located outside ~~((an))~~ the Urban Growth Area.

3931 5. Building permits for structures that ~~((exceed the))~~ are more than two-thousand-
3932 five hundred square feet ~~((limit provided for in subsection A.4.a. of this section, but
3933 comply))~~ in floor area (excluding garages) and comply with subsection A.4.b. and c. of this

3934 section, shall be exempt (~~(from this chapter)~~) if the fire marshal determines that the project
3935 will not create a substantial fire hazard.

3936 B. The fire marshal shall have the authority to impose conditions including, but not
3937 limited to, increased setbacks, use of fire retardant materials or sprinkler system
3938 requirements on permits exempt under subsection A. of this section where necessary to
3939 mitigate identified fire hazards.

3940 C. Building permits (~~(and mobile home permits)~~) and subdivisions and short
3941 subdivisions exempt under subsection A. of this section shall, as a condition of approval,
3942 record a covenant running with the land which acknowledges the absence of fire hydrants
3943 and by which owners of the property and their successors are deemed to have agreed to
3944 participate in and not oppose or protest annexation to a public water district or the
3945 formation of a utility local improvement district for installation of water mains and fire
3946 hydrants consistent with applicable county standards. However, this condition shall not
3947 apply (~~(to any subdivision or short subdivision, or to any building permits and mobile home~~
3948 ~~permits exempt under subsection A. of this section)~~) when the lot is five acres or larger, or
3949 the proposed subdivision, short subdivision or structure is located outside (~~(an)~~) the Urban
3950 Growth Area (~~(designated by the King County comprehensive plan)~~).

3951 SECTION 204. Section 205 of this ordinance takes effect on the date that the
3952 minimum time period after adoption of Ordinance 19276 required by RCW 70.77.250(4)
3953 has passed.

3954 SECTION 205. Ordinance 19276, Section 9, and K.C.C. 17.11.060 are hereby
3955 amended to read as follows:

3956 A. A violation of this chapter is a misdemeanor and is punishable as prescribed

3957 by law.

3958 B. Notwithstanding any criminal penalty provided in this chapter, a person who
3959 violates this chapter or chapter 70.77 RCW is subject to the maximum civil penalty in an
3960 amount not to exceed two hundred fifty dollars per violation. In addition, a person in
3961 violation of this chapter is responsible for any costs incurred to enforce this chapter,
3962 including bringing a civil action, court costs and reasonable attorneys' fees. All civil
3963 penalties assessed shall be enforced under K.C.C. Title 23.

3964 C. A person commits a separate offense for each day during ~~((that))~~ which the
3965 person commits, continues or permits a violation of this chapter.

3966 D. The civil and criminal penalties described in subsections A. through C. of this
3967 section shall not be enforced for violations of K.C.C. 17.11.040.B. as it pertains to the use
3968 or discharge of consumer fireworks, as defined in RCW 70.77.136, until one year after
3969 Ordinance 19276 takes effect under RCW 70.77.250. During the period in which these
3970 penalties are not being enforced, the King County sheriff's office and the fire marshal
3971 shall only issue warnings to violators of K.C.C. 17.11.040.B. and shall provide
3972 information to violators on the county's laws governing fireworks.

3973 SECTION 206. Ordinance 12196, Section 11, as amended, and K.C.C. 20.20.040
3974 are hereby amended to read as follows:

3975 A. The department shall not ~~((commence))~~ begin review of any application ~~((as~~
3976 ~~provided in this chapter))~~ until the applicant has submitted the materials and fees
3977 specified for complete applications. Applications for land use permits requiring Type 1,
3978 2, 3 or 4 decisions shall be considered complete as of the date of submittal upon
3979 determination by the department that the materials submitted meet the requirements of

3980 this section. Except as provided in subsection B. of this section, all land use permit
3981 applications described in K.C.C. 20.20.020.E. shall include the following:

3982 1. An application form provided by the department and completed by the
3983 applicant that allows the applicant to file a single application form for all land use permits
3984 requested by the applicant for the development proposal at the time the application is
3985 filed;

3986 2. Designation of who the applicant is, except that this designation shall not be
3987 required as part of a complete application for purposes of this section when a public
3988 agency or public or private utility is applying for a permit for property on which the
3989 agency or utility does not own an easement or (~~right of way~~) right of way and the
3990 following three requirements are met:

3991 a. the name of the agency or private or public utility is shown on the
3992 application as the applicant;

3993 b. the agency or private or public utility includes in the complete application
3994 an affidavit declaring that notice of the pending application has been given to all owners
3995 of property to which the application applies, on a form provided by the department; and

3996 c. the form designating who the applicant is submitted to the department before
3997 permit approval;

3998 3.a. A certificate of sewer availability or site design approval for an on-site
3999 sewage system by the Seattle-King County department of public health, as required by
4000 K.C.C. Title 13; or

4001 b. If allowed under K.C.C. 13.24.134.B. and the King County Comprehensive
4002 Plan policies for a public school located on a RA zoned site, a certificate of sewer

4003 availability and a letter from the sewer utility indicating compliance with the tightline
4004 sewer provisions in the zoning code, as required by K.C.C. chapter 13.24;

4005 4. If the development proposal requires a source of potable water, a current
4006 certificate of water availability consistent with K.C.C. chapter 13.24 or documentation of
4007 an approved well by (~~the Seattle King County department of~~) public health - Seattle &
4008 King County;

4009 5. A fire district receipt (~~pursuant to~~) in accordance with K.C.C. Title 17, if
4010 required by K.C.C. chapter 21A.40;

4011 6. A site plan, prepared in a form prescribed by the director;

4012 7. Proof that the lot or lots to be developed are recognized as a lot under K.C.C.
4013 Title 19A;

4014 8. A critical areas affidavit, if required by K.C.C. chapter 21A.24;

4015 9. A completed environmental checklist, if required by K.C.C. chapter 20.44;

4016 10. Payment of any development permit review fees, excluding impact fees
4017 collectible (~~pursuant to~~) under K.C.C. Title 27;

4018 11. A list of any permits or decisions applicable to the development proposal
4019 that have been obtained before filing the application or that are pending before the county
4020 or any other governmental entity;

4021 12. Certificate of transportation concurrency from the department of local
4022 services if required by K.C.C. chapter 14.70. The certificate of transportation
4023 concurrency may be for less than the total number of lots proposed by a preliminary plat
4024 application only if:

4025 a. at least seventy-five percent of the lots proposed have a certificate of
4026 transportation concurrency at the time of application for the preliminary plat;

4027 b. a certificate of transportation concurrency is provided for any remaining lots
4028 proposed for the preliminary plat application before the expiration of the preliminary plat
4029 and final recording of the additional lots; and

4030 c. the applicant signs a statement that the applicant assumes the risk that the
4031 remaining lots proposed might not be granted.

4032 13. Certificate of future connection from the appropriate purveyor for lots
4033 located within the ~~((#))~~Urban ~~((#))~~Growth ~~((#))~~Area that are proposed to be served by on-
4034 site or community sewage system and group B water systems or private well, if required
4035 by K.C.C. 13.24.136 through 13.24.140;

4036 14. A determination if drainage review applies to the project ~~((pursuant to))~~
4037 under K.C.C. chapter 9.04 and, if applicable, all drainage plans and documentation
4038 required by the Surface Water Design Manual adopted ~~((pursuant to))~~ under K.C.C.
4039 chapter 9.04 and to the extent known at the time of application and when determined
4040 necessary by the director, copies of any required storm water adjustments;

4041 15. Current assessor's maps and a list of tax parcels to which public notice must
4042 be given ~~((as provided))~~ in accordance with this chapter, for land use permits requiring a
4043 Type 2, 3 or 4 decision;

4044 16. Legal description of the site;

4045 17. Variances obtained or required under K.C.C. Title 14 or 21A to the extent
4046 known at the date of application or when deemed necessary by the director; and

4047 18. For site development permits only, a phasing plan and a time schedule, if the
4048 site is intended to be developed in phases or if all building permits will not be submitted
4049 within three years.

4050 B. A permit application is complete for purposes of this section when it meets the
4051 procedural submission requirements of the department and is sufficient for continued
4052 processing even though additional information may be required or project modifications
4053 may be undertaken subsequently. The determination of completeness shall not preclude
4054 the department from requesting additional information or studies either at the time of
4055 notice of completeness or subsequently if new or additional information is required or
4056 substantial changes in the proposed action occur, as determined by the department.

4057 C. Additional complete application requirements for the following land use
4058 permits are in the following sections of the King County Code:

- 4059 1. Clearing and grading permits, K.C.C. 16.82.060((-));
4060 2. Construction permits, K.C.C. 16.04.052((-); and
4061 3. ~~((Mobile home permits, K.C.C. 16.04.093.~~
4062 4.)) Subdivision applications, short subdivision applications and binding site
4063 plan applications, K.C.C. 19A.08.150.

4064 D. The director may;

- 4065 1. Specify the requirements of the site plan required to be submitted for various
4066 permits;
4067 2. Require additional materials not listed in this section when determined to be
4068 necessary for review of the project; and

4069 3. Waive any of the specific submittal requirements listed (~~herein~~) of this
4070 section that are determined to be unnecessary for review of an application.

4071 E. The applicant shall attest by written oath to the accuracy of all information
4072 submitted for an application.

4073 F. Applications shall be accompanied by the payment of the applicable filing
4074 fees, if any, as established by K.C.C. Title 27.

4075 SECTION 207. Ordinance 4461, Section 2, as amended, and K.C.C. 20.22.040
4076 are hereby amended to read as follows:

4077 The examiner shall issue final decisions in the following cases:

4078 A. Appeals of orders of the ombuds under the lobbyist disclosure code, K.C.C.
4079 chapter 1.07;

4080 B. Appeals of sanctions of the finance and business operations division in the
4081 department of executive services imposed under K.C.C. chapter 2.97;

4082 C. Appeals of career service review committee conversion decisions for part-time
4083 and temporary employees under K.C.C. chapter 3.12A;

4084 D. Appeals of electric vehicle recharging station penalties of the Metro transit
4085 department under K.C.C. 4A.700.700;

4086 E. Appeals of notice and orders of the manager of records and licensing services
4087 or the department of local services permitting division manager under K.C.C. chapter
4088 6.01;

4089 F. Appeals of adult entertainment license denials, suspensions and revocations
4090 under K.C.C. chapter 6.09;

4091 G. Appeals of the fire marshal's decisions on fireworks permits under K.C.C.

4092 chapter 6.26;

4093 H. Appeals of cable franchise nonrenewals under K.C.C. 6.27A.060 and notices
4094 and orders under K.C.C. 6.27A.240;

4095 I. Appeals of notices and orders of the department of natural resources and parks
4096 under K.C.C. chapter 7.09;

4097 J. Appeals of decisions of the director of the department of natural resources and
4098 parks on surface water drainage enforcement under K.C.C. chapter 9.04;

4099 K. Appeals of decisions of the director of the department of natural resources and
4100 parks on requests for rate adjustments to surface and storm water management rates and
4101 charges under K.C.C. chapter 9.08;

4102 L. Appeals of decisions on water quality enforcement under K.C.C. chapter 9.12;

4103 M. Appeals of notices and orders of the manager of animal control under K.C.C.
4104 chapter 11.04;

4105 N. Certifications by the finance and business operations division of the
4106 department of executive services involving K.C.C. chapter 12.16;

4107 O. Appeals of orders of the office of civil rights under K.C.C. chapter 12.17,
4108 K.C.C. chapter 12.18, K.C.C chapter 12.20 and K.C.C. chapter 12.22;

4109 P. Appeals of noise-related orders and citations of the department of local
4110 services, permitting division, under K.C.C. chapter 12.86;

4111 Q. Appeals of utilities technical review committee determinations on water
4112 service availability under K.C.C. 13.24.090;

4113 R. Appeals of decisions regarding mitigation payment system, commute trip
4114 reduction and intersection standards under K.C.C. Title 14;

4115 S. Appeals of suspensions, revocations or limitations of plumbing permits (~~or of~~
4116 ~~decisions of the board of plumbing appeals~~) under K.C.C. chapter 16.32;

4117 T. Appeals of all Type 2 decisions under K.C.C. chapter 20.20, with the
4118 exception of appeals of shoreline permits, including shoreline substantial development
4119 permits, shoreline variances and shoreline conditional uses, which are appealable to the
4120 state Shoreline Hearings Board;

4121 U. Appeals of SEPA decisions, (~~as provided in~~) in accordance with K.C.C.
4122 20.44.120 and public rules adopted under K.C.C. 20.44.075;

4123 V. Appeals of completed farm management plans under K.C.C. 21A.30.045;

4124 W. Appeals of decisions of the interagency review committee created under
4125 K.C.C. 21A.37.070 regarding sending site applications for certification under K.C.C.
4126 chapter 21A.37;

4127 X. Appeals of citations, notices and orders, notices of noncompliance, stop work
4128 orders issued (~~pursuant to~~) in accordance with K.C.C. Title 23 or Title 1.08 of the rules
4129 and regulations of the King County board of health;

4130 Y. Appeals of notices and certifications of junk vehicles to be removed as a
4131 public nuisance (~~as provided~~) in accordance with K.C.C. Title 21A and K.C.C. chapter
4132 23.10;

4133 Z. Appeals of decisions not to issue a citation or a notice and order under K.C.C.
4134 23.36.010.A.2;

4135 AA. Appeals of fee waiver decisions by the department of local services,
4136 permitting division, (~~as provided~~) in accordance with K.C.C. 27.02.040;

4137 BB. Appeals from decisions of the department of natural resources and parks

4138 related to permits, discharge authorizations, violations and penalties under K.C.C.
4139 28.84.050 and 28.84.060;

4140 CC. Appeals of transit rider suspensions under K.C.C. 28.96.430;

4141 DD. Appeals of department of public safety seizures and intended forfeitures,
4142 when properly designated by the chief law enforcement officer of the department of
4143 public safety ((as provided)) in accordance with RCW 69.50.505; and

4144 EE. Other applications or appeals that are prescribed by ordinance.

4145 SECTION 208. Section 209 of this ordinance takes effect on the date that the
4146 minimum time period after adoption of Ordinance 19276 required by RCW 70.77.250(4)
4147 has passed.

4148 SECTION 209. Ordinance 4461, Section 2, as amended, and K.C.C. 20.22.040
4149 are hereby amended to read as follows:

4150 The examiner shall issue final decisions in the following cases:

4151 A. Appeals of orders of the ombuds under the lobbyist disclosure code, K.C.C.
4152 chapter 1.07;

4153 B. Appeals of sanctions of the finance and business operations division in the
4154 department of executive services imposed under K.C.C. chapter 2.97;

4155 C. Appeals of career service review committee conversion decisions for part-time
4156 and temporary employees under K.C.C. chapter 3.12A;

4157 D. Appeals of electric vehicle recharging station penalties of the Metro transit
4158 department under K.C.C. 4A.700.700;

4159 E. Appeals of notice and orders of the manager of records and licensing services
4160 or the department of local services permitting division manager under K.C.C. chapter

4161 6.01;

4162 F. Appeals of adult entertainment license denials, suspensions and revocations

4163 under K.C.C. chapter 6.09;

4164 G. Appeals of the fire marshal's decisions on fireworks permits under K.C.C.

4165 chapter 17.11;

4166 H. Appeals of cable franchise nonrenewals under K.C.C. 6.27A.060 and notices

4167 and orders under K.C.C. 6.27A.240;

4168 I. Appeals of notices and orders of the department of natural resources and parks

4169 under K.C.C. chapter 7.09;

4170 J. Appeals of decisions of the director of the department of natural resources and

4171 parks on surface water drainage enforcement under K.C.C. chapter 9.04;

4172 K. Appeals of decisions of the director of the department of natural resources and

4173 parks on requests for rate adjustments to surface and storm water management rates and

4174 charges under K.C.C. chapter 9.08;

4175 L. Appeals of decisions on water quality enforcement under K.C.C. chapter 9.12;

4176 M. Appeals of notices and orders of the manager of animal control under K.C.C.

4177 chapter 11.04;

4178 N. Certifications by the finance and business operations division of the

4179 department of executive services involving K.C.C. chapter 12.16;

4180 O. Appeals of orders of the office of civil rights under K.C.C. chapter 12.17,

4181 K.C.C. chapter 12.18, K.C.C chapter 12.20 and K.C.C. chapter 12.22;

4182 P. Appeals of noise-related orders and citations of the department of local

4183 services, permitting division, under K.C.C. chapter 12.86;

- 4184 Q. Appeals of utilities technical review committee determinations on water
4185 service availability under K.C.C. 13.24.090;
- 4186 R. Appeals of decisions regarding mitigation payment system, commute trip
4187 reduction and intersection standards under K.C.C. Title 14;
- 4188 S. Appeals of suspensions, revocations or limitations of plumbing permits under
4189 K.C.C. chapter 16.32;
- 4190 T. Appeals of all Type 2 decisions under K.C.C. chapter 20.20, with the
4191 exception of appeals of shoreline permits, including shoreline substantial development
4192 permits, shoreline variances and shoreline conditional uses, which are appealable to the
4193 state Shoreline Hearings Board;
- 4194 U. Appeals of SEPA decisions, in accordance with K.C.C. 20.44.120 and public
4195 rules adopted under K.C.C. 20.44.075;
- 4196 V. Appeals of completed farm management plans under K.C.C. 21A.30.045;
- 4197 W. Appeals of decisions of the interagency review committee created under
4198 K.C.C. 21A.37.070 regarding sending site applications for certification under K.C.C.
4199 chapter 21A.37;
- 4200 X. Appeals of citations, notices and orders, notices of noncompliance, stop work
4201 orders issued in accordance with K.C.C. Title 23 or Title 1.08 of the rules and regulations
4202 of the King County board of health;
- 4203 Y. Appeals of notices and certifications of junk vehicles to be removed as a
4204 public nuisance in accordance with K.C.C. Title 21A and K.C.C. chapter 23.10;
- 4205 Z. Appeals of decisions not to issue a citation or a notice and order under K.C.C.
4206 23.36.010.A.2;

4207 AA. Appeals of fee waiver decisions by the department of local services,
4208 permitting division, in accordance with K.C.C. 27.02.040;

4209 BB. Appeals from decisions of the department of natural resources and parks
4210 related to permits, discharge authorizations, violations and penalties under K.C.C.
4211 28.84.050 and 28.84.060;

4212 CC. Appeals of transit rider suspensions under K.C.C. 28.96.430;

4213 DD. Appeals of department of public safety seizures and intended forfeitures,
4214 when properly designated by the chief law enforcement officer of the department of
4215 public safety in accordance with RCW 69.50.505; and

4216 EE. Other applications or appeals that are prescribed by ordinance.

4217 SECTION 210. Ordinance 13129, Section 6, and K.C.C. 21A.27.060 are hereby
4218 amended to read as follows:

4219 The building permit shall become null and void if construction of the transmission
4220 support structure has not begun within one year after the effective date of permit approval
4221 or if antennas are not installed within one hundred eighty days after construction of the
4222 transmission support structure. Extensions shall be allowed only in accordance with the
4223 criteria specified for building permit extensions in K.C.C. (~~(16.04.05013)~~) 16.02.290.

4224 SECTION 211. Ordinance 10870, Section 523, as amended, and K.C.C.
4225 21A.28.130 are hereby amended to read as follows:

4226 All new development shall be served by adequate fire protection as follows:

4227 A. The site of the development proposed is served by a water supply system that
4228 provides at least minimum fire flow and ~~(-)~~a(~~(-)~~) road system or ~~(-)~~fire lane system that

4229 provides life safety and rescue access, and other fire protection requirements for
4230 buildings as required by K.C.C. Titles 16 and 17;

4231 B. For a zone reclassification or Urban planned development, the timing of
4232 installation of required fire protection improvements shall be stated in the approving
4233 ordinance as specified in K.C.C. 20.22.250, secured with a bond or similar security, and
4234 deposited with King County; and

4235 C. A variance request from the requirements established by K.C.C. Title 17, Fire
4236 Code, shall be reviewed (~~(as set forth)~~) in accordance with K.C.C. 17.08.090 (~~(or K.C.C.~~
4237 ~~17.10.040, and/)~~) or (~~(in Article 2)~~) chapter 1 of the currently adopted edition of the
4238 International Fire Code and does not require a variance from this title unless relief is
4239 requested from a building height, setback, landscaping or other development standard
4240 (~~(set forth)~~) in K.C.C. chapters 21A.12 through 21A.30.

4241 SECTION 212. Ordinance 13332, Section 16, as amended, and K.C.C. 27.10.010
4242 are hereby amended to read as follows:

4243 Plan review fees shall compensate the department for the plan review necessary to
4244 determine compliance with approved plans, adopted international codes and other county
4245 regulations. The fees shall be collected to compensate the department for the review of:

4246 A. Commercial and residential building permit applications under K.C.C. chapters
4247 16.04, (~~(16.70, 16.74,)~~) 16.78 and 17.04 and K.C.C. Titles 20 and 21A;

4248 B. Grading and clearing permit applications under K.C.C. chapter 16.82;

4249 C. Shoreline permit applications and exemptions under K.C.C. Title 25;

4250 D. State Environmental Policy Act compliance under K.C.C. chapter 20.44;

4251 E. Critical areas under K.C.C. chapter 21A.24;

4252 F. Preliminary and final subdivisions and short subdivisions under K.C.C. Title
4253 19A;

4254 G. Binding site plan review under K.C.C. Title 19A;

4255 H. Boundary line adjustments under K.C.C. Title 19A;

4256 I. Variance requests, conditional use permits, zone reclassification requests, special
4257 use permits and temporary use permits under K.C.C. Title 21A;

4258 J. Right of way use permits under K.C.C. Title 14; and

4259 K. Drainage review under K.C.C. Title 9.

4260 SECTION 213. Ordinance 13332, Section 39, as amended, and K.C.C. 27.10.310
4261 are hereby amended to read as follows:

4262 Construction and site development inspection fees shall compensate the department
4263 for inspections necessary to determine compliance with adopted international codes and
4264 other county regulations. The fees may be based on valuation as defined in this title, fixed
4265 or both based on valuation and fixed. Fees shall be collected for reinspections and
4266 supplemental inspections, as well as being collected to compensate the department for
4267 inspection of:

4268 A. Commercial and residential buildings, additions, and under K.C.C. chapters
4269 16.04(~~(, 16.70, 16.74)~~) and 16.78 and K.C.C. Titles 20 and 21A;

4270 B. Grading and clearing sites under K.C.C. chapter 16.82;

4271 C. Site development, including roads and drainage and erosion control under
4272 K.C.C. Titles 9 and 14 and K.C.C. chapter 16.82;

4273 D. Shoreline permit approvals and exemptions under K.C.C. Title 25;

4274 E. State Environmental Policy Act condition compliance under K.C.C. chapter
4275 20.48;

4276 F. Zoning condition compliance under K.C.C. Title 21A; and

4277 G. Monitoring drainage and sensitive area conditions.

4278 SECTION 214. The following are each hereby repealed:

4279 A. Ordinance 10608, Section 3, as amended, and K.C.C. 16.02.130;

4280 B. Ordinance 14914, Section 13, as amended, and K.C.C. 16.02.180;

4281 C. Ordinance 12560, Section 14, as amended, and K.C.C. 16.02.380;

4282 D. Ordinance 12560, Section 9, as amended, and K.C.C. 16.02.560;

4283 E. Ordinance 17837, Section 40, and K.C.C. 16.03.165;

4284 F. Ordinance 14914, Section 114, and K.C.C. 16.03.220;

4285 G. Ordinance 15802, Section 21, and K.C.C. 16.04.305;

4286 H. Ordinance 14914, Section 144, as amended, and K.C.C. 16.04.320;

4287 I. Ordinance 14914, Section 151, as amended, and K.C.C. 16.04.340;

4288 J. Ordinance 15802, Section 23, and K.C.C. 16.04.342;

4289 K. Ordinance 15802, Section 31, as amended, and K.C.C. 16.04.455;

4290 L. Ordinance 14914, Section 167, as amended, and K.C.C. 16.04.470;

4291 M. Ordinance 15802, Section 33, as amended, and K.C.C. 16.04.472;

4292 N. Ordinance 15802, Section 34 and K.C.C. 16.04.475;

4293 O. Ordinance 15802, Section 35 and K.C.C. 16.04.478;

4294 P. Ordinance 12560, Section 56, as amended, and K.C.C. 16.04.500;

4295 Q. Ordinance 14914, Section 177, and K.C.C. 16.04.510;

4296 R. Ordinance 15802, Section 36, and K.C.C. 16.04.515;

- 4297 S. Ordinance 14914, Section 178, as amended, and K.C.C. 16.04.520;
- 4298 T. Ordinance 14914, Section 179, and K.C.C. 16.04.530;
- 4299 U. Ordinance 14914, Section 185, and K.C.C. 16.04.540;
- 4300 V. Ordinance 15802, Section 38, and K.C.C. 16.04.545;
- 4301 W. Ordinance 12560, Section 71, as amended, and K.C.C. 16.04.590;
- 4302 X. Ordinance 12560, Section 76, as amended, and K.C.C. 16.04.640;
- 4303 Y. Ordinance 12560, Section 77, as amended, and K.C.C. 16.04.650;
- 4304 Z. Ordinance 12560, Section 78, as amended, and K.C.C. 16.04.660;
- 4305 AA. Ordinance 12560, Section 79, as amended, and K.C.C. 16.04.670;
- 4306 BB. Ordinance 12560, Section 80, as amended, and K.C.C. 16.04.680;
- 4307 CC. Ordinance 12560, Section 81, as amended, and K.C.C. 16.04.690;
- 4308 DD. Ordinance 12560, Section 82, as amended, and K.C.C. 16.04.700;
- 4309 EE. Ordinance 12560, Section 99, as amended, and K.C.C. 16.04.870;
- 4310 FF. Ordinance 11622, Section 2, as amended, and K.C.C. 16.04.880;
- 4311 GG. Ordinance 3647, Section 8, and K.C.C. 16.04.910;
- 4312 HH. Ordinance 14914, Section 269, as amended, and K.C.C. 16.05.010;
- 4313 II. Ordinance 14914, Section 270, and K.C.C. 16.05.020;
- 4314 JJ. Ordinance 14914, Section 271, as amended, and K.C.C. 16.05.030;
- 4315 KK. Ordinance 14914, Section 273, as amended, and K.C.C. 16.05.050;
- 4316 LL. Ordinance 14914, Section 277, as amended, and K.C.C. 16.05.090;
- 4317 MM. Ordinance 15802, Section 84, and K.C.C. 16.05.102;
- 4318 NN. Ordinance 15802, Section 86, and K.C.C. 16.05.104;
- 4319 OO. Ordinance 11797, Section 2, as amended, and K.C.C. 16.05.106;

- 4320 PP. Ordinance 2910, Section 4 (part), as amended, and K.C.C. 16.05.108;
- 4321 QQ. Ordinance 12560, Section 57, as amended, and K.C.C. 16.05.110;
- 4322 RR. Ordinance 11797, Section 1, as amended, and K.C.C. 16.05.120;
- 4323 SS. Ordinance 15802, Section 93, as amended, and K.C.C. 16.05.124;
- 4324 TT. Ordinance 11797, Section 3, as amended, and K.C.C. 16.05.127;
- 4325 UU. Ordinance 14238, Section 18, as amended, and K.C.C. 16.06.010;
- 4326 VV. Ordinance 14238, Section 19, as amended, and K.C.C. 16.06.020;
- 4327 WW. Ordinance 14238, Section 21, as amended, and K.C.C. 16.06.030;
- 4328 XX. Ordinance 14914, Section 288, as amended, and K.C.C. 16.06.031;
- 4329 YY. Ordinance 14914, Section 289, as amended, and K.C.C. 16.06.032;
- 4330 ZZ. Ordinance 14914, Section 290, as amended, and K.C.C. 16.06.033;
- 4331 AAA. Ordinance 14914, Section 291, as amended, and K.C.C. 16.06.034;
- 4332 BBB. Ordinance 14914, Section 292, as amended, and K.C.C. 16.06.035;
- 4333 CCC. Ordinance 14914, Section 293, and K.C.C. 16.06.036;
- 4334 DDD. Ordinance 14914, Section 294, and K.C.C. 16.06.037;
- 4335 EEE. Ordinance 14914, Section 295, and K.C.C. 16.06.038;
- 4336 FFF. Ordinance 14238, Section 21, as amended, and K.C.C. 16.06.040;
- 4337 GGG. Ordinance 14238, Section 22, as amended, and K.C.C. 16.06.050;
- 4338 HHH. Ordinance 14238, Section 23, as amended, and K.C.C. 16.06.060;
- 4339 III. Ordinance 14238, Section 24, as amended, and K.C.C. 16.06.070;
- 4340 JJJ. Ordinance 14238, Section 25, as amended, and K.C.C. 16.06.080;
- 4341 KKK. Ordinance 14111, Section 118, as amended, and K.C.C. 16.12.010;
- 4342 LLL. Ordinance 15802, Section 103, and K.C.C. 16.12.012;

- 4343 MMM. Ordinance 14111, Section 129, and K.C.C. 16.14.010;
- 4344 NNN. Ordinance 14914, Section 340, and K.C.C. 16.14.070;
- 4345 OOO. Ordinance 14914, Section 341, and K.C.C. 16.14.080;
- 4346 PPP. Ordinance 12560, Section 116, as amended, and K.C.C. 16.14.120
- 4347 QQQ. Ordinance 12560, Section 118, as amended, and K.C.C. 16.14.130;
- 4348 RRR. Ordinance 14914, Section 354, and K.C.C. 16.14.160;
- 4349 SSS. Ordinance 14914, Section 355, and K.C.C. 16.14.170;
- 4350 TTT. Ordinance 12560, Section 119, as amended, and K.C.C. 16.14.180;
- 4351 UUU. Ordinance 14914, Section 358, and K.C.C. 16.14.190;
- 4352 VVV. Ordinance 12560, Section 136, as amended, and K.C.C. 16.14.230;
- 4353 WWW. Ordinance 12560, Section 137, as amended, and K.C.C. 16.14.240;
- 4354 XXX. Ordinance 14914, Section 368, and K.C.C. 16.14.260;
- 4355 YYY. Ordinance 14914, Section 369, and K.C.C. 16.14.270;
- 4356 ZZZ. Ordinance 14238, Section 5, as amended, and K.C.C. 16.14.300;
- 4357 AAAA. Ordinance 14238, Section 6, as amended, and K.C.C. 16.14.310;
- 4358 BBBB. Ordinance 14238, Section 7, as amended, and K.C.C. 16.14.320;
- 4359 CCCC. Ordinance 15802, Section 106, as amended, and K.C.C. 16.14.321;
- 4360 DDDD. Ordinance 14238, Section 8, as amended, and K.C.C. 16.14.330;
- 4361 EEEE. Ordinance 14238, Section 9, as amended, and K.C.C. 16.14.340;
- 4362 FFFF. Ordinance 14238, Section 10, as amended, and K.C.C. 16.14.350;
- 4363 GGGG. Ordinance 14238, Section 11, as amended, and K.C.C. 16.14.360;
- 4364 HHHH. Ordinance 15802, Section 109, and K.C.C. 16.14.365;
- 4365 IIII. Ordinance 15802, Section 110, and K.C.C. 16.14.366;

- 4366 JJJJ. Ordinance 14238, Section 12, as amended, and K.C.C. 16.14.370;
- 4367 KKKK. Ordinance 14238, Section 13, as amended, and K.C.C. 16.14.380;
- 4368 LLLL. Ordinance 15802, Section 113, and K.C.C. 16.14.385;
- 4369 MMMM. Ordinance 14238, Section 14, as amended, and K.C.C. 16.14.390;
- 4370 NNNN. Ordinance 14238, Section 15, as amended, and K.C.C. 16.14.400;
- 4371 OOOO. Ordinance 14914, Section 396, and K.C.C. 16.14.420;
- 4372 PPPP. Ordinance 14914, Section 399, and K.C.C. 16.14.440;
- 4373 QQQQ. Ordinance 14914, Section 417, and K.C.C. 16.14.560;
- 4374 RRRR. Ordinance 8330, Section 34, as amended, and K.C.C. 16.32.085;
- 4375 SSSS. Ordinance 6746, Section 19, KCC 16.32.170;
- 4376 TTTT. Ordinance 15802, Section 120, and K.C.C. 16.32.175;
- 4377 UUUU. Ordinance 15802, Section 121, and K.C.C. 16.32.185;
- 4378 VVVV. Ordinance 15802, Section 125, and K.C.C. 16.32.225;
- 4379 WWWW. Ordinance 15802, Section 127, and K.C.C. 16.32.245;
- 4380 XXXX. Ordinance 15802, Section 129, and K.C.C. 16.32.265;
- 4381 YYYYY. Ordinance 15802, Section 134, as amended, and K.C.C. 16.32.315;
- 4382 ZZZZ. Ordinance 15802, Section 135, and K.C.C. 16.32.326;
- 4383 AAAAA. Ordinance 15802, Section 136, and K.C.C. 16.32.335;
- 4384 BBBBB. Ordinance 12560, Section 151, as amended, and K.C.C. 17.04.270;
- 4385 CCCCC. Ordinance 12560, Section 150, as amended, and K.C.C. 17.04.300;
- 4386 DDDDD. Ordinance 12560, Section 158, as amended, and K.C.C. 17.04.340;
- 4387 EEEEE. Ordinance 12560, Section 159, as amended, and K.C.C. 17.04.350;
- 4388 FFFFF. Ordinance 12560, Section 162, as amended, and K.C.C. 17.04.360;

- 4389 GGGGG. Ordinance 14111, Section 201, as amended, and K.C.C. 17.04.430;
- 4390 HHHHH. Ordinance 12560, Section 170, as amended, and K.C.C. 17.04.440;
- 4391 IIIII. Ordinance 14111, Section 202, as amended, and K.C.C. 17.04.460;
- 4392 JJJJJ. Ordinance 14111, Section 203, as amended, and K.C.C. 17.04.470;
- 4393 KKKKK. Ordinance 14111, Section 205, as amended, and K.C.C. 17.04.480;
- 4394 LLLLL. Ordinance 14111, Section 213, as amended, and K.C.C. 17.04.490;
- 4395 MMMMM. Ordinance 14111, Section 206, as amended, and K.C.C. 17.04.500;
- 4396 NNNNN. Ordinance 14111, Section 210, as amended, and K.C.C. 17.04.510;
- 4397 OOOOO. Ordinance 15803, Section 26, as amended, and K.C.C. 17.04.522;
- 4398 PPPPP. Ordinance 6328, Section 4, as amended, and K.C.C. 17.04.530;
- 4399 QQQQQ. Ordinance 14915, Section 79, as amended, and K.C.C. 17.04.550;
- 4400 RRRRR. Ordinance 17837, Section 82, and K.C.C. 17.04.565;
- 4401 SSSSS. Ordinance 14111, Section 220, as amended, and K.C.C. 17.04.570;
- 4402 TTTTT. Ordinance 12560, Section 175, as amended, and K.C.C. 17.04.580;
- 4403 UUUUU. Ordinance 15803, Section 8, as amended, and K.C.C. 17.04.583;
- 4404 VVVVV. Ordinance 14238, Section 29, as amended, and K.C.C. 17.04.600;
- 4405 WWWWW. Ordinance 14238, Section 30, as amended, and K.C.C. 17.04.610;
- 4406 XXXXX. Ordinance 14238, Section 31, as amended, and K.C.C. 17.04.620;
- 4407 YYYYY. Ordinance 8726, Section 1, as amended, and K.C.C. 17.04.630;
- 4408 ZZZZZ. Ordinance 5828, Section 2, and K.C.C. 17.08.010;
- 4409 AAAAAA. Ordinance 5828, Section 5, as amended, and K.C.C. 17.08.040;
- 4410 BBBBBB. Ordinance 5828, Section 6, and K.C.C. 17.08.050;
- 4411 CCCCCC. Ordinance 5828, Section 7, and K.C.C. 17.08.060;

4412 DDDDDD. Ordinance 5828, Section 8, and K.C.C. 17.08.070;

4413 EEEEE. Ordinance 5828, Section 9, and K.C.C. 17.08.080;

4414 FFFFFF. Ordinance 3087, Section 10, and K.C.C. 17.08.110;

4415 GGGGGG. Ordinance 3087, Section 11, and K.C.C. 17.08.120;

4416 HHHHHH. Ordinance 5828, Section 14, and K.C.C. 17.08.150; and

4417 IIIII. Ordinance 7080, Section 2, and K.C.C. 17.08.160.

4418 SECTION 215. This ordinance takes effect ninety days after its enactment.

4419 SECTION 216. Severability. If any provision of this ordinance or its application

4420 to any person or circumstance is held invalid, the remainder of the ordinance or the
4421 application of the provision to other persons or circumstances is not affected.

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

ATTEST:

APPROVED this ____ day of _____, _____.

Attachments: None