



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

Ordinance 19485

Proposed No. 2021-0346.3

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

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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

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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

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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,

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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

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113 2, as amended, and K.C.C. 20.22.040, Ordinance 13129,
114 Section 6, and K.C.C. 21A.27.060, Ordinance 10870,
115 Section 523, as amended, and K.C.C. 21A.28.130,
116 Ordinance 13332, Section 16, as amended, and K.C.C.
117 27.10.010 and Ordinance 13332, Section 39, as amended,
118 and K.C.C. 27.10.310, adding new sections to K.C.C.
119 chapter 16.02, adding new sections to K.C.C. chapter
120 16.03, adding a new section to K.C.C. chapter 16.14,
121 adding new sections to K.C.C. chapter 16.32, adding new
122 sections to K.C.C. chapter 17.04, adding a new chapter to
123 K.C.C. Title 16 and repealing Ordinance 10608, Section 3,
124 as amended, and K.C.C. 16.02.130, Ordinance 14914,
125 Section 13, as amended, and K.C.C. 16.02.180, Ordinance
126 12560, Section 14, as amended, and K.C.C. 16.02.380,
127 Ordinance 12560, Section 9, as amended, and K.C.C.
128 16.02.560, Ordinance 17837, Section 40, and K.C.C.
129 16.03.165, Ordinance 14914, Section 114, and K.C.C.
130 16.03.220, Ordinance 15802, Section 21, and K.C.C.
131 16.04.305, Ordinance 14914, Section 144, as amended, and
132 K.C.C. 16.04.320, Ordinance 14914, Section 151, as
133 amended, and K.C.C. 16.04.340, Ordinance 15802, Section
134 23, and K.C.C. 16.04.342, Ordinance 15802, Section 31, as
135 amended, and K.C.C. 16.04.455, Ordinance 14914, Section

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136 167, as amended, and K.C.C. 16.04.470, Ordinance 15802,
137 Section 33, as amended, and K.C.C. 16.04.472, Ordinance
138 15802, Section 34 and K.C.C. 16.04.475, Ordinance 15802,
139 Section 35 and K.C.C. 16.04.478, Ordinance 12560,
140 Section 56, as amended, and K.C.C. 16.04.500, Ordinance
141 14914, Section 177, and K.C.C. 16.04.510, Ordinance
142 15802, Section 36, and K.C.C. 16.04.515, Ordinance
143 14914, Section 178, as amended, and K.C.C. 16.04.520,
144 Ordinance 14914, Section 179, and K.C.C. 16.04.530,
145 Ordinance 14914, Section 185, and K.C.C. 16.04.540,
146 Ordinance 15802, Section 38, and K.C.C. 16.04.545,
147 Ordinance 12560, Section 71, as amended, and K.C.C.
148 16.04.590, Ordinance 12560, Section 76, as amended, and
149 K.C.C. 16.04.640, Ordinance 12560, Section 77, as
150 amended, and K.C.C. 16.04.650, Ordinance 12560, Section
151 78, as amended, and K.C.C. 16.04.660, Ordinance 12560,
152 Section 79, as amended, and K.C.C. 16.04.670, Ordinance
153 12560, Section 80, as amended, and K.C.C. 16.04.680,
154 Ordinance 12560, Section 81, as amended, and K.C.C.
155 16.04.690, Ordinance 12560, Section 82, as amended, and
156 K.C.C. 16.04.700, Ordinance 12560, Section 99, as
157 amended, and K.C.C. 16.04.870, Ordinance 11622, Section
158 2, as amended, and K.C.C. 16.04.880, Ordinance 3647,

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159 Section 8, and K.C.C. 16.04.910, Ordinance 14914, Section
160 269, as amended, and K.C.C. 16.05.010, Ordinance 14914,
161 Section 270, and K.C.C. 16.05.020, Ordinance 14914,
162 Section 271, as amended, and K.C.C. 16.05.030, Ordinance
163 14914, Section 273, as amended, and K.C.C. 16.05.050,
164 Ordinance 14914, Section 277, as amended, and K.C.C.
165 16.05.090, Ordinance 15802, Section 84, and K.C.C.
166 16.05.102, Ordinance 15802, Section 86, and K.C.C.
167 16.05.104, Ordinance 11797, Section 2, as amended, and
168 K.C.C. 16.05.106, Ordinance 2910, Section 4 (part), as
169 amended, and K.C.C. 16.05.108, Ordinance 12560, Section
170 57, as amended, and K.C.C. 16.05.110, Ordinance 11797,
171 Section 1, as amended, and K.C.C. 16.05.120, Ordinance
172 15802, Section 93, as amended, and K.C.C. 16.05.124,
173 Ordinance 11797, Section 3, as amended, and K.C.C.
174 16.05.127, Ordinance 14238, Section 18, as amended, and
175 K.C.C. 16.06.010, Ordinance 14238, Section 19, as
176 amended, and K.C.C. 16.06.020, Ordinance 14238, Section
177 21, as amended, and K.C.C. 16.06.030, Ordinance 14914,
178 Section 288, as amended, and K.C.C. 16.06.031, Ordinance
179 14914, Section 289, as amended, and K.C.C. 16.06.032,
180 Ordinance 14914, Section 290, as amended, and K.C.C.
181 16.06.033, Ordinance 14914, Section 291, as amended, and

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182 K.C.C. 16.06.034, Ordinance 14914, Section 292, as
183 amended, and K.C.C. 16.06.035, Ordinance 14914, Section
184 293, and K.C.C. 16.06.036, Ordinance 14914, Section 294,
185 and K.C.C. 16.06.037, Ordinance 14914, Section 295, and
186 K.C.C. 16.06.038, Ordinance 14238, Section 21, as
187 amended, and K.C.C. 16.06.040, Ordinance 14238, Section
188 22, as amended, and K.C.C. 16.06.050, Ordinance 14238,
189 Section 23, as amended, and K.C.C. 16.06.060, Ordinance
190 14238, Section 24, as amended, and K.C.C. 16.06.070,
191 Ordinance 14238, Section 25, as amended, and K.C.C.
192 16.06.080, Ordinance 14111, Section 118, as amended, and
193 K.C.C. 16.12.010, Ordinance 15802, Section 103, and
194 K.C.C. 16.12.012, Ordinance 14111, Section 129, and
195 K.C.C. 16.14.010, Ordinance 14914, Section 340, and
196 K.C.C. 16.14.070, Ordinance 14914, Section 341, and
197 K.C.C. 16.14.080, Ordinance 12560, Section 116, as
198 amended, and K.C.C. 16.14.120, Ordinance 12560, Section
199 118, as amended, and K.C.C. 16.14.130, Ordinance 14914,
200 Section 354, and K.C.C. 16.14.160, Ordinance 14914,
201 Section 355, and K.C.C. 16.14.170, Ordinance 12560,
202 Section 119, as amended, and K.C.C. 16.14.180, Ordinance
203 14914, Section 358, and K.C.C. 16.14.190, Ordinance
204 12560, Section 136, as amended, and K.C.C. 16.14.230,

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205 Ordinance 12560, Section 137, as amended, and K.C.C.
206 16.14.240, Ordinance 14914, Section 368, and K.C.C.
207 16.14.260, Ordinance 14914, Section 369, and K.C.C.
208 16.14.270, Ordinance 14238, Section 5, as amended, and
209 K.C.C. 16.14.300, Ordinance 14238, Section 6, as
210 amended, and K.C.C. 16.14.310, Ordinance 14238, Section
211 7, as amended, and K.C.C. 16.14.320, Ordinance 15802,
212 Section 106, as amended, and K.C.C. 16.14.321, Ordinance
213 14238, Section 8, as amended, and K.C.C. 16.14.330,
214 Ordinance 14238, Section 9, as amended, and K.C.C.
215 16.14.340, Ordinance 14238, Section 10, as amended, and
216 K.C.C. 16.14.350, Ordinance 14238, Section 11, as
217 amended, and K.C.C. 16.14.360, Ordinance 15802, Section
218 109, and K.C.C. 16.14.365, Ordinance 15802, Section 110,
219 and K.C.C. 16.14.366, Ordinance 14238, Section 12, as
220 amended, and K.C.C. 16.14.370, Ordinance 14238, Section
221 13, as amended, and K.C.C. 16.14.380, Ordinance 15802,
222 Section 113, and K.C.C. 16.14.385, Ordinance 14238,
223 Section 14, as amended, and K.C.C. 16.14.390, Ordinance
224 14238, Section 15, as amended, and K.C.C. 16.14.400,
225 Ordinance 14914, Section 396, and K.C.C. 16.14.420,
226 Ordinance 14914, Section 399, and K.C.C. 16.14.440,
227 Ordinance 14914, Section 417, and K.C.C. 16.14.560,

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228 Ordinance 8330, Section 34, as amended, and K.C.C.
229 16.32.085, Ordinance 6746, Section 19, KCC 16.32.170,
230 Ordinance 15802, Section 120, and K.C.C. 16.32.175,
231 Ordinance 15802, Section 121, and K.C.C. 16.32.185,
232 Ordinance 15802, Section 125, and K.C.C. 16.32.225,
233 Ordinance 15802, Section 127, and K.C.C. 16.32.245,
234 Ordinance 15802, Section 129, and K.C.C. 16.32.265,
235 Ordinance 15802, Section 134, as amended, and K.C.C.
236 16.32.315, Ordinance 15802, Section 135, and K.C.C.
237 16.32.326, Ordinance 15802, Section 136, and K.C.C.
238 16.32.335, Ordinance 12560, Section 151, as amended, and
239 K.C.C. 17.04.270, Ordinance 12560, Section 150, as
240 amended, and K.C.C. 17.04.300, Ordinance 12560, Section
241 158, as amended, and K.C.C. 17.04.340, Ordinance 12560,
242 Section 159, as amended, and K.C.C. 17.04.350, Ordinance
243 12560, Section 162, as amended, and K.C.C. 17.04.360,
244 Ordinance 14111, Section 201, as amended, and K.C.C.
245 17.04.430, Ordinance 12560, Section 170, as amended, and
246 K.C.C. 17.04.440, Ordinance 14111, Section 202, as
247 amended, and K.C.C. 17.04.460, Ordinance 14111, Section
248 203, as amended, and K.C.C. 17.04.470, Ordinance 14111,
249 Section 205, as amended, and K.C.C. 17.04.480, Ordinance
250 14111, Section 213, as amended, and K.C.C. 17.04.490,

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251 Ordinance 14111, Section 206, as amended, and K.C.C.
252 17.04.500, Ordinance 14111, Section 210, as amended, and
253 K.C.C. 17.04.510, Ordinance 15803, Section 26, as
254 amended, and K.C.C. 17.04.522, Ordinance 6328, Section
255 4, as amended, and K.C.C. 17.04.530, Ordinance 14915,
256 Section 79, as amended, and K.C.C. 17.04.550, Ordinance
257 17837, Section 82, and K.C.C. 17.04.565, Ordinance
258 14111, Section 220, as amended, and K.C.C. 17.04.570,
259 Ordinance 12560, Section 175, as amended, and K.C.C.
260 17.04.580, Ordinance 15803, Section 8, as amended, and
261 K.C.C. 17.04.583, Ordinance 14238, Section 29, as
262 amended, and K.C.C. 17.04.600, Ordinance 14238, Section
263 30, as amended, and K.C.C. 17.04.610, Ordinance 14238,
264 Section 31, as amended, and K.C.C. 17.04.620, Ordinance
265 8726, Section 1, as amended, and K.C.C. 17.04.630,
266 Ordinance 5828, Section 2, and K.C.C. 17.08.010,
267 Ordinance 5828, Section 5, as amended, and K.C.C.
268 17.08.040, Ordinance 5828, Section 6, and K.C.C.
269 17.08.050, Ordinance 5828, Section 7, and K.C.C.
270 17.08.060, Ordinance 5828, Section 8, and K.C.C.
271 17.08.070, Ordinance 5828, Section 9, and K.C.C.
272 17.08.080, Ordinance 3087, Section 10, and K.C.C.
273 17.08.110, Ordinance 3087, Section 11, and K.C.C.

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274 17.08.120, Ordinance 5828, Section 14, and K.C.C.

275 17.08.150 and Ordinance 7080, Section 2, and K.C.C.

276 17.08.160.

277 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

278 SECTION 1. Ordinance 14111, Section 3, as amended, and K.C.C. 16.02.100 are

279 hereby amended to read as follows:

280 This chapter applies to the chapters in this title regarding the International
281 Building Code (K.C.C. chapter 16.04), the International Residential Code (K.C.C.
282 chapter 16.05), the International Energy Conservation Code (K.C.C. chapter 16.XX (the
283 new chapter established by section 68 of this ordinance), the International Mechanical
284 Code, the International Existing Building Code, the International Property Maintenance
285 Code (K.C.C. chapter 16.14), the ((International Mechanical Code (K.C.C. chapter
286 16.12)) Uniform Plumbing Code (K.C.C. chapter 16.32) and the King County Building
287 Security Code (K.C.C. chapter 16.10).

288 SECTION 2. Ordinance 14111, Section 4, as amended, and K.C.C. 16.02.110 are

289 hereby amended to read as follows:

290 A. The ((~~International Building Code, 2012 Edition, with Appendix C and E, as~~
291 ~~amended in chapter 51-50 WAC, Appendix Z, as adopted by this title, and the~~
292 ~~International Residential Code for One and Two Family Dwellings 2012 Edition, with~~
293 ~~Appendix G, H and K, 2012 Edition, as amended in chapter 51-51 WAC, as)) following
294 codes published by or jointly with the International Code Council, Inc., together with
295 amendments, additions, exceptions and deletions adopted in this ((~~chapter~~)) title by
296 reference, together with the State Building Code Act, chapter 19.27 RCW, which are~~

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297 referred to in this title as "the International codes" and with King County modifications
298 that are adopted and codified in this chapter, are adopted as the King County building
299 codes and may be cited as such and are referred to in this chapter as "this code((-))":

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

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

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

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

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

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

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

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

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

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

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

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343 **EXCEPTIONS:**

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

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

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

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

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

363 These regulations shall be known as the Building Codes of King County. These
364 codes are the International Building Code (IBC), the International Residential Code (~~for~~
365 ~~One and Two Family Dwellings~~)) (IRC) (~~and~~), the International Energy Conservation

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366 Code (IECC), the International Mechanical Code (IMC), the International Existing
367 Building Code (IEBC), the International Property Maintenance Code (IPMC), the
368 Uniform Plumbing Code, the King County Building Security Code (K.C.C. chapter
369 16.10) and the International Fire Code (IFC), as adopted in K.C.C. Title 17.

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

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

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

379 **EXCEPTIONS:**

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

382 1.1 ~~((§))~~The construction, alteration, movement, enlargement, replacement,
383 repair, equipment, use and occupancy, location, removal and demolition of detached one-
384 and two-family dwellings and ~~((multiple single family dwellings-))~~ townhouses ~~((§))~~, not
385 more than three stories in height above grade plane with a separate means of egress and
386 their accessory structures, including adult family homes, foster family care homes and
387 family day care homes licensed by the Washington state ~~((§))~~Department of ~~((§))~~Social
388 and ~~((§))~~Health ~~((§))~~Services.

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389 1.2. ((The provisions of the International Residential Code for One and Two-
390 Family Dwellings shall apply to d)) Detached residential accessory structures that are
391 used for home occupations ~~((and))~~ or home industries that include offices, mercantile,
392 food preparation for off-site consumption, personal care salons and similar uses, if the
393 home occupation or home industry is subordinate to the primary residential use of the site
394 and the total cumulative floor area devoted to the home occupation or home industry in
395 ~~((any))~~ each detached accessory structure on-site is less than or equal to 500 square feet
396 ~~((46.4m²))~~ 46.5m².

397 1.3. Live/work units located in townhouses and complying with the
398 requirements of IBC 419. Fire suppression required by IBC 419.5 when constructed
399 under the International Residential Code shall conform to Appendix U - Dwelling unit
400 fire sprinkler systems, as adopted in chapter 51-51 WAC.

401 1.4. Owner-occupied lodging houses with one or two guestrooms.

402 1.5. Owner-occupied lodging houses with three to five guestrooms where
403 equipped with a fire sprinkler system in accordance with Appendix U - Dwelling unit fire
404 sprinkler systems, as adopted in chapter 51-51 WAC.

405 ~~((3.))~~ 2. The provisions of the International Mechanical Code shall regulate the
406 design, installation, maintenance, alteration and inspection of mechanical systems that are
407 permanently installed and ~~((utilized))~~ used to provide control of the environmental
408 conditions and related processes within buildings. This code shall also regulate those
409 mechanical systems, system components, equipment and appliances specifically
410 addressed ~~((herein))~~ in this section. The installation of fuel gas distribution piping and

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411 equipment, fuel gas-fired appliances and fuel gas-fired appliance venting systems shall be
412 regulated by the International Fuel Gas Code and WAC 51-52-0101.

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

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

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

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

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

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

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

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

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

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

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

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

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

446 1.1. The original occupancy classification is not changed, and

447 1.2. The original building is not substantially remodeled or rehabilitated. For
448 the purposes of this section a building shall be considered to be substantially remodeled
449 when the costs of remodeling exceed (~~60~~) 50 percent of the value of the building
450 exclusive of the costs relating to preparation, construction, demolition or renovation of
451 foundations.

452 No person shall move within or into the unincorporated areas of King County, or
453 cause to be moved, any building or structure without first obtaining, in addition to the
454 building permit, a relocation investigation permit from the building official. The purpose
455 of this relocation investigation permit is to determine (~~prior to~~), before relocation, the

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456 deficiencies in the building. Before a structure is relocated to a proposed site, a building
457 permit shall be obtained.

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

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

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

472 ((4.1 If the building official denies a building permit for the relocation of a
473 structure, the applicant may request, within 10 days of the date of mailing or other
474 issuance of the denial notice, that building official refer the building permit application to
475 the building code advisory board. The advisory board shall review the application and
476 make a recommendation to the building official, who may reconsider the denial in light
477 of the advisory board's recommendation.))

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

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

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

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

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

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

490 Building:

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

495 1.1 ~~((€))~~The floor area does not exceed 200 square feet ~~((11.15 m²))~~ provided
496 that the roof overhang) (18.6 m²);

497 1.2 The roof eave does not project closer than three feet to any portion of an
498 adjacent building and does not exceed twenty-four inches measured horizontally from the
499 exterior wall; and

500 1.3 The building is separated a minimum of five feet from all other buildings.

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

506 2.1. ((~~t~~))The floor area does not exceed ((~~200~~) 400 square feet (((~~11.15~~)) 37.2
507 m²) ((~~provided that the roof overhang~~));

508 2.2. The roof eave does not project closer than three feet to any portion of an
509 adjacent building and does not exceed twenty-four inches measured horizontally from the
510 exterior wall;

511 2.3. The building is separated a minimum of five feet from other buildings;
512 and

513 2.4. The building does not have an installed heating system and is not connected
514 to water, sanitary sewer or septic service.

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

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

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

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- 522 6. Sidewalks, decks and driveways not more than 30 inches (~~((.762 m))~~) 762 mm
523 above grade and not over any basement or story below and that are not part of an
524 accessible route.
- 525 7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish
526 work.
- 527 8. Temporary motion picture, television and theater stage sets and scenery.
- 528 9. Prefabricated swimming pools accessory to a (~~(Group R, Division 3~~
529 ~~Occupancy~~) detached one- or two-family dwelling as applicable in (~~(Section))~~ IBC
530 101.2, that are installed entirely above ground and are either less than 24 inches (610
531 mm) deep and do not exceed 5,000 gallons (18,925 l) or are installed for temporary use of
532 less than three months in a twelve month period.
- 533 10. (~~(Shade cloth structures constructed for nursery or agricultural purposes, and~~
534 ~~not including service systems)) Temporary growing structures and temporary worker
535 housing as exempted by WAC 51-50-007.~~
- 536 11. Swings and other playground equipment.
- 537 12. Window awnings for detached one- and two-family dwellings supported by
538 an exterior wall that do not project more than 54 inches (1,372 mm) from the exterior
539 wall and do not require additional support (~~(of Group R3, as applicable in Section 101.2,~~
540 ~~and Group U Occupancies))~~).
- 541 13. Moveable cases, counters and partitions not over 5 feet 9 inches (~~((228.6 m))~~)
542 1.75m) high.
- 543 14. (~~(Re-roofing))~~ Reroofing of existing one- and two-family residential
544 buildings.
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545 **EXCEPTION:** When replacement roofing adds more than 5 pounds per square
546 foot cumulative dead load to the weight of the original roofing a permit shall be required.

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

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

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

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

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

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

562 Gas:

563 1. Portable heating or cooking appliances.

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

566 Mechanical:

567 1. Portable heating or clothes drying appliances.

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- 568 2. Portable ventilation appliances and equipment.
- 569 3. Portable cooling unit.
- 570 4. Steam, hot or chilled water piping within any heating or cooling equipment
- 571 regulated by this code.
- 572 5. Replacement of any part that does not alter its approval or make it unsafe.
- 573 6. Portable evaporative cooler.
- 574 7. Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of
- 575 refrigerant and actuated by motors of one horsepower (746 W) or less.
- 576 8. Portable fuel cell appliances that are not connected to a fixed piping system
- 577 and are not interconnected to a power grid.

578 ~~((Unless otherwise exempted,))~~ Exempted items shall still be subject to separate

579 plumbing, electrical and mechanical permits ~~((will be required for the above-exempted~~

580 ~~items))~~.

581 Exemption from the permit requirements of this code shall not be deemed to grant

582 authorization for any work to be done in any manner in violation of the provisions of this

583 code or any other laws or ordinances of this jurisdiction.

584 SECTION 14. Ordinance 14914, Section 23, as amended, and K.C.C. 16.02.250

585 are hereby amended to read as follows:

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

587 SECTION 15. Ordinance 11622, Section 3, as amended, and K.C.C. 16.02.260

588 are hereby amended to read as follows:

589 Section 105.3 of the International Building Code is not adopted and the following

590 is substituted:

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

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

597 1.1. Identify and describe the work to be covered by the permit for which
598 application is made.

599 1.2. Indicate the use or occupancy of which the proposed work is intended.

600 1.3. Be accompanied by plans, diagrams, computations and specifications and
601 other data as required in IBC (~~(Section 106.1)~~) 107.

602 1.4. State the valuation of any new building or structure or any addition,
603 remodeling or alteration to an existing building.

604 1.5. Give such other data and information as may be required by the building
605 official.

606 1.6. Identify on the site plan (~~(of)~~) all easements, deed restrictions(~~(s)~~) or other
607 encumbrances restricting the use of the property, and provide details as required in IBC
608 107.2.6 and as otherwise required by the building official.

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

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

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

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

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

621 1. An application for a permit extension together with the applicable fee is
 622 submitted to the department at least ~~((seven-))~~7~~((-))~~, but no more than ~~((sixty-))~~60~~((-))~~,
 623 calendar days ~~((prior to))~~ before the date the original permit becomes null and void.
 624 Once the permit extension application is submitted and if that extension is not denied,
 625 work may continue past the expiration date of the original permit~~((, provided that the~~
 626 ~~extension application is not denied))~~. If the extension application is denied, all work
 627 must stop until a valid permit is obtained.

628 2. The permit shall not be extended ~~((f))~~if:

629 2.1. ~~((e))~~Construction of a building or structure has not substantially
 630 ~~((commenced))~~ begun, as determined by the building official, within two years from the
 631 date of the first issued permit; and

632 2.2. ~~((t))~~The building ~~((and))~~ or the structure, or its intended use, is no longer
 633 authorized by the zoning code or other applicable law~~((, then the permit shall not be~~
 634 ~~extended))~~.

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

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

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

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

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

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

650 ~~(106.3.3)~~ **107.3.3**). If the applicant for a permit or approval required by this code
651 desires to (~~(commence)~~) begin work before obtaining the required permit or approval, the
652 building official(~~(:)~~) may allow the applicant to proceed if:

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

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

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

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

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

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

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

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

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

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680 hard copy of the building permit application (~~((given to the applicant))~~) at the time of
681 ~~((the))~~ permit issuance shall serve as the inspection record card. This validated hard copy
682 of the building permit application shall thereafter be referred to as the building permit.

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

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

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

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

693 Section ~~((110.3.7))~~ 110.3.8 of the International Building Code is not adopted and
694 the following is substituted:

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

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

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

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

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

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

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

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

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

715 This chapter and K.C.C. 16.02.110 contain(~~s~~) definitions of technical and
716 procedural terms that are used throughout the title. The definitions in this chapter and
717 K.C.C. 16.02.110 supplement the definitions contained in the International codes adopted
718 in this title. The definitions in this chapter do not apply to K.C.C. chapter 16.82.

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

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

723 A. Base flood;

724 B. Base flood elevation

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- 725 C. Coastal high-hazard area;
- 726 D. Design flood;
- 727 ~~((C.))~~ E. Dry floodproofing;
- 728 ~~((D. Existing construction;~~
- 729 ~~E.))~~ F. Flood hazard area;
- 730 ~~((F. Flood hazard area subject to high velocity wave action;))~~
- 731 G. Flood insurance rate map (FIRM);
- 732 H. Flood insurance study;
- 733 I. Floodway;
- 734 J. ~~((High Rise Building;))~~ Historic buildings;
- 735 K. ~~((Nonbuilding structure;))~~ Special flood hazard area; and
- 736 L. ~~((Start of construction; and~~
- 737 ~~M.))~~ Substantial improvement.
- 738 SECTION 27. Ordinance 3647, Section 3, as amended, and K.C.C. 16.03.040 are
- 739 hereby amended to read as follows:
- 740 Whenever the following words appear in the code, they are to be changed as
- 741 follows:
- 742 A. Building official or code official to the department of local services permitting
- 743 division manager or designee;
- 744 B. Name of jurisdiction to unincorporated King County;
- 745 C. The department of building and safety to King County department of local
- 746 services, permitting division; and
- 747 D. Design flood elevation to base flood elevation(~~(;~~

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748 ~~E. Mobile home to manufactured home)).~~

749 NEW SECTION. SECTION 28. There is hereby added to K.C.C. chapter 16.03

750 a new section to read as follows:

751 Air admittance valve: a device that:

752 A. Allows air to enter the plumbing drainage system in one direction to protect

753 fixture traps from siphonage when negative pressures develop;

754 B. Prevents sewer gases from entering the interior building atmosphere during

755 static pressure or positive pressure conditions in the plumbing waste system; and

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

757 NEW SECTION. SECTION 29. There is hereby added to K.C.C. chapter 16.03

758 a new section to read as follows:

759 Boiler: any heating appliance or equipment that:

760 A. Heats potable water and supplies such water to the potable hot water

761 distribution system; and

762 B. Exceeds a pressure of 160 pounds per square inch (1103 kPa), a volume of

763 120 gallons (454 L) or a heat input of 200,000 Btu per hour (58 kW).

764 SECTION 30. Ordinance 11923, Section 1, as amended, and K.C.C. 16.03.060

765 are hereby amended to read as follows:

766 Condominium: real property, including but not limited to residential buildings

767 and mobile home parks, portions of which are designated for separate ownership and the

768 remainder of which is designated for common ownership solely by the owners of those

769 portions. Real property is not a condominium unless the undivided interests in the

770 common elements are vested in the condominium unit owners and unless a declaration

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771 and a survey map and plans have been recorded (~~(pursuant to)~~) in accordance with the
772 Horizontal Property Regimes Act(~~(, chapter 64.34 RCW,)~~) in chapter 64.32 RCW or the
773 Condominium Act(~~(,)~~) in chapter 64.34 RCW.

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

776 Water heater: any heating appliance or equipment that:

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

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

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

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

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

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

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

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

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

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

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

804 **EXCEPTIONS:**

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

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

813 2.1. When either of two portables has exterior wall protection rated for not less
814 than one hour, with no openings or openings that comply with the area limits of
815 ~~((Section))~~ IBC 705.8, the minimum clear space shall be 10 feet from any other portable.

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816 2.2. When both of two portables have exterior wall protection rated for not less
817 than one hour with no openings, the minimum clear space shall be 5 feet from any other
818 portable.

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

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

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

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

832 (~~(1. ADDITIONAL REQUIREMENTS.~~

833 ~~1.1. The Fire Marshal or designee retains the authority under section 903.2.13.1~~
834 ~~of the International Fire Code to impose additional conditions, including but not limited~~
835 ~~to increased setbacks, use of fire retardant materials or standpipes where determined~~
836 ~~necessary to mitigate identified fire protection impacts.~~

837 ~~1.2. This chapter applies to all buildings or structures whose county assessed~~
838 ~~value has increased by more than 50% within a five year period due to the added value of~~

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839 ~~alterations and repairs. When the first permit application is submitted to alter or repair an~~
840 ~~existing building, the county assessed value of the building at the time the complete~~
841 ~~application is submitted shall be considered the base county assessed value for the~~
842 ~~following five year period.~~

843 ~~1.3. Any additions to an existing building or structure shall be considered new~~
844 ~~construction and subject the entire structure to the provisions of this chapter.~~

845 ~~1.4. All condominiums shall have the following wording in the recorded~~
846 ~~Declaration of Covenants and a copy of the document shall be provided to the fire code~~
847 ~~official or designee:~~

848 ~~1.4.1 In the event that any unit should be equipped with a sprinkler system,~~
849 ~~nothing shall be hung from the sprinklers comprising a part of the system nor shall any~~
850 ~~such sprinklers be painted, covered, or otherwise changed, tampered with or altered.~~

851 ~~1.4.2. Prior to any alteration, amendment, modification or change thereof, the~~
852 ~~owners or their agents will submit such alteration, amendment, modification or change to~~
853 ~~the fire marshal or designee for approval and agrees to comply with all applicable~~
854 ~~sprinkler requirements.))~~

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

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

859 **General (IBC 903.1).** Automatic sprinkler systems shall comply with ~~((this~~
860 ~~section. For provisions for special hazards and hazardous materials, Section 901.4.3 of~~

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861 ~~the International Fire Code applies))~~ the International Fire Code as amended by K.C.C.
862 Title 17.

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

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

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

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

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

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

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

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883 SECTION 38. Ordinance 14111, Section 55, as amended, and K.C.C. 16.04.330

884 are hereby amended to read as follows:

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

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

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

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

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

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

900 4. ~~Where special hazards or unusual conditions exists in addition to the normal~~
901 ~~hazard of the space due to the design, size, volume or use of the space, the Fire Marshal~~
902 ~~is authorized to require additional safeguards suitable for the protection of the hazard or~~
903 ~~condition involved. Additional safeguards can consist of automatic fire alarm system,~~
904 ~~automatic sprinkler or water spray system, standpipe and hose, fixed or portable fire~~
905 ~~extinguishers, or other special fire extinguishing systems. Where such systems are~~

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906 ~~provided, they shall be designed and installed in accordance with the applicable~~
907 ~~International Fire Code Standards))~~ in accordance with the International Fire Code as
908 amended by K.C.C. Title 17.

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

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

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

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

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

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

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

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

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

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

934 Section ~~((1009))~~ 1011 of the International Building Code is supplemented with
935 the following:

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

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

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

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

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

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

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

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

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

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

965 (~~(Sea-Tac)~~) **Seattle-Tacoma sound reduction standards (IBC (~~(1207.4)~~)**
966 **1206.4**). All buildings or structures constructed or placed in use for human occupancy on
967 sites in the vicinity of (~~(Sea-Tac)~~) Seattle-Tacoma International Airport (~~(which)~~) that
968 have been included within (~~(or enclosed by)~~) the Port of Seattle Noise Remedy (~~(Program~~
969 ~~boundaries)~~) Boundary shall comply with the provisions in supplemental IBC Appendix
970 Z as adopted by King County.

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

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

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

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

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

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

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

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

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

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

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

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

995 **Flood hazard documentation (IBC ((1612.5)) 1612.4)**. For construction in
996 flood hazard areas the applicant shall provide actual as-built elevation ((certification))

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997 certificate by a professional civil engineer or land surveyor licensed by the state of
998 Washington.

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

1001 Section ((1803.4)) 1804.5 of the International Building Code is not adopted and
1002 the following is substituted:

1003 **Grading and fill in floodways (IBC ((1803.4)) 1804.5).** Excavation, grading
1004 and fill in floodways shall be in accordance with K.C.C. chapter 21A.24.

1005 SECTION 50. Ordinance 14914, Section 168, and K.C.C. 16.04.480 are hereby
1006 amended to read as follows:

1007 Section ((1807.1.2.1)) 1805.1.2.1 of the International Building Code is not
1008 adopted and the following is substituted:

1009 **Flood hazard areas (IBC ((1807.1.2.1)) 1805.1.2.1).** For buildings and
1010 structures in flood hazard areas as established in K.C.C. chapter 21A.24, ((~~the finished~~
1011 ~~ground level of an under floor space such as a crawl space shall be equal to or higher~~
1012 ~~than the outside finished grade level)) fully enclosed areas below the lowest floor and
1013 below the flood protection elevation, including crawl spaces and attached garages, shall
1014 be in accordance with K.C.C. chapter 21A.24.~~

1015 SECTION 51. Ordinance 12560, Section 54, as amended and K.C.C. 16.04.490
1016 are hereby amended to read as follows:

1017 Section 2902.1 of the International Building Code ((~~as amended by chapter 51-~~
1018 ~~50 WAC,)) is not adopted and the following is substituted:~~

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1019 **Minimum number of fixtures (IBC 2902.1).** The number of plumbing fixtures
1020 within a building shall not be less than ~~((set forth in Section))~~ what is required by IBC
1021 2902. Fixtures located within gender-neutral toilet and bathing rooms shall be included
1022 in determining the number of fixtures provided in an occupancy. The director ~~((of public~~
1023 ~~health))~~ is authorized to determine the number of plumbing fixtures within a building
1024 and to enforce this section.

1025 SECTION 52. Ordinance 12560, Section 67, as amended, and K.C.C. 16.04.550
1026 are hereby amended to read as follows:

1027 The International Building Code is supplemented ~~((by))~~ with the following
1028 appendix:

1029 **Purpose (IBC AZ 101).** The purpose of these sections is to safeguard life,
1030 health, property and public welfare by establishing minimum requirements regulating the
1031 design, construction~~((;))~~ and~~((or setting on site))~~ siting of buildings for human
1032 occupancy ~~((in))~~ within the ~~((vicinity of Sea-Tac))~~ Seattle-Tacoma International Airport's
1033 ~~((as identified on the maps referenced in the April 24, 1985 Federal Register, Volume 50,~~
1034 ~~No. 79))~~ Noise Remedy Boundary as established by the Port of Seattle pursuant to the
1035 2013 Part 150 Noise Compatibility Study. These sections are not intended to abridge any
1036 safety or health requirements required under any other applicable codes or ordinances.

1037 SECTION 53. Ordinance 12560, Section 68, as amended, and K.C.C. 16.04.560
1038 are hereby amended to read as follows:

1039 The International Building Code is supplemented ~~((by))~~ with the following
1040 appendix:

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1041 **Scope (IBC AZ 102).** The provisions of this ~~((chapter))~~ section shall apply to all
 1042 buildings or structures constructed or placed ~~((in use))~~ for human occupancy on sites
 1043 within the ~~((vicinity of))~~ Seattle-Tacoma International Airport's ~~((which have been~~
 1044 ~~included within or enclosed by the Port of Seattle))~~ Noise Remedy ~~((Program~~
 1045 ~~boundaries))~~ Boundary;

1046 1. ~~((Structures r))~~ Relocated structures shall comply with all requirements of this
 1047 chapter, and~~((r))~~

1048 2. Manufactured or mobile homes located in mobile home parks shall be exempt
 1049 from these requirements.

1050 This chapter is intended to supplement the provisions of the International
 1051 Residential Code, the International Mechanical Code, the Washington state Energy
 1052 Code~~((r))~~ and the International Building Code. In the case of conflict between the chapter
 1053 and any other applicable codes the more restrictive requirements shall be met.

1054 SECTION 54. Ordinance 12560, Section 74, as amended, and K.C.C. 16.04.620
 1055 are hereby amended to read as follows:

1056 The International Building Code is supplemented ~~((by))~~ with the following
 1057 appendix:

1058 ~~((Sea-Tac))~~ **Seattle-Tacoma noise program area (IBC AZ 108).** ~~((Noise~~
 1059 ~~determined))~~ Noise-determined construction requirements detailed in this chapter shall be
 1060 applied to new construction and additions ~~((of all structures))~~ within the designated areas
 1061 of the Port of Seattle's Noise Remedy Boundary, except for not-normally-inhabited
 1062 portions of warehouses, storage buildings and similar structures as determined by the
 1063 director~~((, within the designated program areas of the Port of Seattle's Noise Remedy~~

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1064 ~~Program. The applicable program areas are the Neighborhood Reinforcement Area and~~
1065 ~~the Cost Share Insulation Area)). Specific construction requirements ((for these two~~
1066 ~~areas)) are:~~

1067 ~~((a) Neighborhood Reinforcement Area:~~

1068 ~~1)) 1. Bedrooms ((must)) shall comply with IBC AZ 125 which is designed to~~
1069 ~~achieve a noise reduction of 35 ((db)) dB.~~

1070 ~~((2)) 2. All other living and working areas ((must)) shall comply with IBC AZ~~
1071 ~~117 which is designed to achieve a noise reduction level of 30 dB.~~

1072 ~~((b) Cost Share Insulations Area:~~

1073 ~~1) Bedrooms must comply with AZ 117 which is designed to achieve a noise~~
1074 ~~reduction of 30 dB.~~

1075 ~~2) All other living and working areas must comply with AZ 110 which is~~
1076 ~~designed to achieve a noise reduction level of 25 dB.)~~

1077 SECTION 55. Ordinance 12560, Section 89, as amended, and K.C.C. 16.04.770
1078 are hereby amended to read as follows:

1079 The International Building Code is supplemented ((by)) with the following
1080 appendix:

1081 **Floors 30 dB compliance (IBC AZ 123).** The floor of the lowest occupied
1082 rooms shall be slab on fill, below grade((-)) or over a fully enclosed basement or crawl
1083 space. All door and window openings in the fully enclosed basement shall be tightly
1084 fitted.

1085 **EXCEPTION:** Floors over fully enclosed garages or over carports shall have a
1086 laboratory sound transmission class rating of at least STC-35. The floor over the garage

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1087 or carport shall be insulated to not less than R-19, but not less than that specified by the
1088 ~~((Washington state energy code))~~ International Energy Conservation Code and enclosed
1089 with one layer of 5/8" type 'X' GWB on the garage or carport side or any equivalent
1090 approved garage or dwelling separation assembly in conformance with ~~((IRC-s))~~
1091 International Residential Code Section ~~((R309.2))~~ R302.6.

1092 SECTION 56. Ordinance 12560, Section 97, as amended, and K.C.C. 16.04.850
1093 are hereby amended to read as follows:

1094 The International Building Code is supplemented ~~((by))~~ with the following
1095 appendix:

1096 **Floors 35 dB compliance (IBC AZ 131).** The floor of the lowest occupied
1097 rooms shall be slab on fill or below grade or over a fully enclosed basement or crawl
1098 space. All door and window openings in the fully enclosed basement shall be tightly
1099 fitted.

1100 **EXCEPTION:** Floors over fully enclosed garages or over carports shall have a
1101 laboratory sound transmission class rating of at least STC-40. The floor over the garage
1102 or carport shall be insulated to not less than R-19, but not less than that specified by the
1103 ~~((Washington state energy code))~~ International Energy Conservation Code and enclosed
1104 with two layers of 5/8" type 'X' GWB on the garage or carport side or any equivalent
1105 approved garage/dwelling separation assembly in conformance with ~~((IRC-s))~~
1106 International Residential Code Section ~~((R309.2))~~ R302.6.

1107 SECTION 57. Ordinance 12380, Section 1, and K.C.C. 16.04.930 are hereby
1108 amended to read as follows:

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1109 A. The purpose of this section is to establish standards for the location, review
1110 and installation of manufactured and mobile homes (and accessory structures) as well as
1111 factory-built commercial structures and coaches.

1112 B. These standards shall apply to all manufactured or mobile homes (and
1113 accessory structures) or factory-built commercial structures and coaches to be installed
1114 after August 4, 1996.

1115 SECTION 58. Ordinance 12380, Section 2, and K.C.C. 16.04.940 are hereby
1116 amended to read as follows:

1117 A manufactured or mobile home with an insignia of approval by the Washington
1118 ~~((S))~~state Department of Labor and Industries ~~((DLI))~~ (L&I) or the U.S. Department of
1119 Housing and Urban Development (HUD) may locate on any legal lot on which a dwelling
1120 unit is permitted by K.C.C. Title 21A and within any legally approved mobile home park.
1121 ~~((However, a))~~A manufactured or mobile home without such insignia shall not be
1122 relocated to or within King County ~~((except as provided in K.C.C. 16.04.950.B))~~.

1123 SECTION 59. Ordinance 12380, Section 3, as amended, and K.C.C. 16.04.950
1124 are hereby amended to read as follows:

1125 All manufactured or mobile homes shall comply with the following requirements:

1126 ~~((A. "Insignia" Mobile Homes))~~ 1. Manufactured or ~~((M))~~mobile homes
1127 approved by ~~((DLI))~~ Washington state Department of Labor and Industries (L&I) or the
1128 U.S. Department of Housing and Urban Development (HUD) shall have the appropriate
1129 insignia indicating such approval affixed to the unit, in accordance with chapter 43.22
1130 RCW.

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1131 ~~((B. "Noninsignia" Mobile Homes. Mobile homes without an insignia of~~
1132 ~~approval in accordance with subsection A of this section are subject to the following~~
1133 ~~provisions:~~

1134 ~~1. Mobile homes currently located within King County may remain in their~~
1135 ~~current location. However, prior to the relocation of such mobile home to another portion~~
1136 ~~of King County, the owner shall provide evidence that the mobile home was located~~
1137 ~~within King County before January 21, 1980. A "noninsignia" mobile home currently~~
1138 ~~located outside of King County may be relocated to King County only when subject to~~
1139 ~~forced relocation in accordance with RCW 59.21.105.~~

1140 ~~2. Prior to installing a noninsignia mobile home, the mobile home shall be~~
1141 ~~inspected and approved by the department. The inspection shall review consistency with~~
1142 ~~the following livability standards, but shall not be considered a warranty that the mobile~~
1143 ~~home is safe or livable:~~

1144 ~~a. the unit must have safe, operable heating facilities.~~

1145 ~~b. the unit must be equipped with a water closet, lavatory, bathtub or shower,~~
1146 ~~and kitchen sink; be provided with hot and cold running water; and all facilities shall be~~
1147 ~~installed and maintained in a safe and sanitary condition.~~

1148 ~~c. the structure must be weather protected so as to provide shelter for the~~
1149 ~~occupants against the elements and to exclude dampness.~~

1150 ~~d. all openable windows and doors must be in operable condition to provide~~
1151 ~~for adequate natural ventilation and emergency exit.~~

1152 ~~e. at least one operable smoke detector shall be installed within the unit.~~

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1153 ~~f. the unit shall be structurally sound with no apparent unsafe condition in~~
1154 ~~floors, walls, ceilings and roofs.~~

1155 ~~g. the unit must be well maintained, free of debris and infestation of insects,~~
1156 ~~vermin or rodents.~~

1157 ~~C.)~~ 2. ~~((All mobile homes are subject to the following i))~~ Installation
1158 requirements:

1159 2.1. ~~((Support systems and stabilizing devices shall be designed and installed in~~
1160 ~~accordance with the provisions of WAC 296-150B-200))~~ Manufactured or mobile homes
1161 shall be installed consistent with chapter 296-150 WAC and in accordance with the
1162 manufacturers installation requirements as approved by Washington state Department of
1163 Labor and Industries (L&I).

1164 2.2. Electrical connections shall be inspected and approved by the Washington
1165 ~~((S))~~ state Department of Labor and Industries (L&I).

1166 2.3. Manufactured or mobile homes supported on piers shall be fully skirted.

1167 2.4. Manufactured or mobile homes located outside of a mobile home park shall
1168 be subject to the setback and lot coverage provisions of the zone in which they are
1169 located.

1170 ~~((D.))~~ 3. Accessory Structures.

1171 3.1. Accessory structures shall be subject to the provisions of the International
1172 Building Code or the International Residential Code, as applicable, as adopted in King
1173 County and a building permit shall be required before construction or installation.

1174 3.2. Separation between accessory structures and other structures shall be ~~((as~~
1175 ~~set forth))~~ in accordance with K.C.C. 21A.14.160 or K.C.C. 21A.14.170 ~~((or~~

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1176 ~~21A.14.180~~). However, if the accessory structure is a carport constructed of
1177 combustible materials, the carport roof area shall not extend over or otherwise cover any
1178 bedroom windows and no other accessory structures other than decks, porches, stairs or
1179 ramps shall be permitted under the carport roof area.

1180 SECTION 60. Ordinance 12380, Section 4, as amended, and K.C.C. 16.04.960
1181 are hereby amended to read as follows:

1182 ~~((A.))~~ 1. Installation of a manufactured or mobile home shall require ~~((the~~
1183 ~~approval of a mobile home))~~ a building permit by the department ~~((pursuant to))~~ in
1184 accordance with the permit process and procedures in K.C.C. chapter 16.02 and for type
1185 1 permits outlined in K.C.C. chapter 20.20. ~~((The permit shall expire one year after date~~
1186 ~~of issuance. A permit may be renewed for a maximum of one year upon request of the~~
1187 ~~applicant, provided such requests are made within fifteen days of the date of expiration of~~
1188 ~~the original permit. Mobile homes shall not be permanently occupied for more than~~
1189 ~~forty five days prior to issuance of a certificate of occupancy by the department.~~

1190 ~~B.))~~ 2. The following ~~((must))~~ shall be submitted with a ~~((n))~~ building permit
1191 application for a manufactured or mobile home ~~((permit, except that when the mobile~~
1192 ~~home is to be located in an approved mobile home park, subsection B.1.d., 1.e., 1.h., 1.i.~~
1193 ~~and 3 shall not apply:~~

1194 1. Two copies of a site plan drawn to scale, showing:
1195 a. north arrow and scale,
1196 b. location and dimensions of all property lines or leased areas, and easements,
1197 c. proposed location of mobile home and/or accessory structure(s) on the site
1198 or space,

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1199 ~~d. distances from the mobile home and accessory structure(s) to property lines,~~
1200 ~~e. approximate surface elevation at each corner of the site,~~
1201 ~~f. location of parking spaces,~~
1202 ~~g. name or number of street on which site or space is located,~~
1203 ~~h. location of septic tank and drainfield, if sewers are not available,~~
1204 ~~i. location of well or other water source, if public water supply is not~~
1205 ~~available;));~~

1206 2.1. A description of the manufactured or mobile home, including:

- 1207 a. model number,
- 1208 b. Washington ~~((S))~~state ~~((and/))~~or ~~((H.U.D.))~~ U.S. Department of Housing
1209 and Urban Development (HUD) ID number or both,
- 1210 c. name of manufacturer and year of manufacture;

1211 ~~((3-))~~ 2.2. Two copies of plans showing that the proposed foundation system, if
1212 more than one-fourth of the floor area of the manufactured or mobile home, as measured
1213 from the bottom of the main frame members, will be more than three feet above the
1214 existing ground level, or when any supporting piers exceed sixty inches in height;

1215 ~~((4-))~~ 2.3. A ~~((State Contractors or Mobile Home Dealers Registration Card, or~~
1216 ~~photocopy of same and))~~ Certified Manufactured Home Installers number.

1217 ~~((C. An accessory structure in excess of 200 square feet of floor area including~~
1218 ~~roof overhang shall require the approval of a building permit by the department pursuant~~
1219 ~~to the permit process and procedures for type 1 permits outlined in K.C.C. chapter 20.20.~~
1220 ~~An application for a building permit for an accessory structure shall include site plans~~
1221 ~~drawn consistent with the provisions of subsection B.1. If an application for a building~~

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1222 ~~permit for an accessory structure is submitted together with an application for a mobile~~
1223 ~~home permit and if the accessory structure is less than 600 square feet in area, the fee for~~
1224 ~~the accessory structure shall be waived.))~~

1225 SECTION 61. Ordinance 12380, Section 5, as amended, and K.C.C. 16.04.970
1226 are hereby amended to read as follows:

1227 ~~((A-))~~ 1. Factory-built commercial structures and coaches shall be located,
1228 installed and used in the same manner as conventional commercial structures, except to
1229 the extent that construction standards are regulated by the Washington ~~((S))~~ state
1230 Department of Labor and Industries or the U.S. Department of Housing and Urban
1231 Development.

1232 ~~((B-))~~ 2. Factory-built commercial structures and commercial coaches shall be
1233 installed subject to the following:

1234 2.1. A building permit ~~((must))~~ shall be obtained for any factory-built
1235 commercial structure or commercial coach ~~((pursuant to))~~ in accordance with the permit
1236 process and procedures for type 1 permits outlined in K.C.C. chapter 20.20.

1237 2.2. The following criteria must be satisfied for the permanent installation of a
1238 factory-built commercial structure or commercial coach before a building permit can be
1239 issued:

1240 a. The appropriate insignia of the Washington ~~((S))~~ state Department of Labor
1241 and Industries ~~((of))~~ or the U.S. Department of Housing and Urban Development ~~((must))~~
1242 shall be affixed to the unit. If the unit is lacking the appropriate insignia, it must satisfy
1243 the structural, mechanical, electrical and plumbing requirements of the International

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1244 Building, Mechanical and other applicable codes as adopted in King County for
1245 conventional commercial structures.

1246 b. The foundation, entry/exit stairs or ramps, and all accessory structures shall
1247 be designed and installed in accordance with the provisions of the International Building
1248 Code as adopted in King County.

1249 c. Occupancy of the structure shall not be permitted before inspection and
1250 approval.

1251 2.3. The temporary installation of factory-built commercial structures and
1252 commercial coaches may be permitted for a period not to exceed one year. The support
1253 system recommended by the manufacturer, or designed by a professional structural
1254 engineer registered by the state, may be substituted for a foundation designed in
1255 accordance with the provisions of the International Building Code as adopted in King
1256 County, subject to the approval of the department.

1257 2.4. Factory-built construction office trailers may be placed without an
1258 additional permit as long as the site is covered by a valid building permit.

1259 SECTION 62. Ordinance 7853, Section 1, as amended, and K.C.C. 16.04.980 are
1260 hereby amended to read as follows:

1261 ~~((A.))~~ 1. Authority. The director is authorized and directed to enforce the
1262 provisions of this chapter and any rules and regulations promulgated thereunder,
1263 ~~((pursuant to))~~ in accordance with the enforcement and penalty provisions of K.C.C. Title
1264 23.

1265 **EXCEPTION:** The director of ~~((the department of))~~ public health - Seattle &
1266 King County is authorized to enforce ~~((International Building Code Section 2902.1 and~~

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1267 ~~Table 29-A chapter 51-50 WAC and~~) the fuel gas piping requirements in the
 1268 International Fuel Gas Code, WAC 51-52-0101 and Chapter 24 of the International
 1269 Residential Code.

1270 ~~((B-))~~ 2. General. All construction or work for which a permit is required shall
 1271 be subject to inspection by the director.

1272 ~~((C- Authority. The director is authorized and directed to enforce this chapter))~~

1273 3. Administration. The director is authorized to promulgate, adopt, maintain and
 1274 issue ~~((those))~~ rules and regulations necessary to the effective and efficient administration
 1275 of this chapter~~((, such rules and regulations to be adopted and maintained))~~ in accordance
 1276 with the provisions for the rules of county agencies~~((;))~~ in K.C.C. chapter 2.98.

1277 ~~((D-))~~ 4. Plan Reviews and Inspections. All buildings constructed under ~~((the~~
 1278 ~~provisions of))~~ this chapter are subject to a final inspection for compliance with this
 1279 chapter. The director has the authority to establish rules and procedures for accepting at
 1280 the director's option an affidavit of substantial compliance with this chapter in lieu of
 1281 plan reviews ~~((and/))~~ or inspections.

1282 SECTION 63. Ordinance 14914, Section 272, as amended, and K.C.C. 16.05.040
 1283 are hereby amended to read as follows:

1284 Table R301.2(1) of the International Residential Code is not adopted and the
 1285 following is substituted:

Table R301.2(1)

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA FOR KING COUNTY

Ground	Wind	Seismic	Subject to damage from				Winter	Ice-	Flood	Air	Mean
			Weathering	Frost	Termite	Decay					

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snow load	speed (mph)	design category		line depth			design temp.	shield required	hazards	freezing index	annual temp.
Varies ₁	((85)) <u>110</u>	D1 or D2 ₍₍₂₎₎ ²	Moderate	12" < 1,000ft elev. ₍₍₃₎₎ ³	Slight to Mod.	Slight to Mod.	25	No	Varies ₄	100 to 250	50

1288

Footnotes:

1289

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

1290

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

1291

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

1292

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

1293

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

1294

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

1295

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

1296

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

1297

King County shall be seismic design category D2.

1298

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

1299

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

1300

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

1301

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

1302

analysis, but shall not be less than 12 inches.

1303

4. Flood hazard within King County varies. See the flood hazard code provisions

1304

of K.C.C. chapter 21A.24.

1305

SECTION 64. Ordinance 15802, Section 78, and K.C.C. 16.05.065 are hereby

1306

amended to read as follows:

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1307 Section (~~(R310.5)~~) R310.2.4 of the International Residential Code is not adopted
1308 and the following is substituted:

1309 **Emergency escape windows under decks and porches (IRC (~~(R310.5)~~)**
1310 **R310.2.4** Emergency escape windows are allowed to be installed under decks, porches,
1311 roof overhangs, awnings(~~(s)~~) or similar projections (~~(provided)~~) if the location allows the
1312 emergency escape window to be fully opened and provides a path not less than 36 inches
1313 (914mm) in height and not less than 36 inches (914 mm) in width with a maximum
1314 unobstructed travel length directly to a yard or court based on 3:1, length to height ratio
1315 or as approved by the building official. This distance shall be measured from the edge of
1316 the window or if served by a window well from the edge of that window well.

1317 **EXCEPTION:** When the vertical height is (~~(6'8")~~) 6 feet 8 inches (2,032 mm) or
1318 (~~(greater)~~) more, the travel distance or length is unlimited.

1319 SECTION 65. Ordinance 14914, Section 275, as amended, and K.C.C. 16.05.070
1320 are hereby amended to read as follows:

1321 Section (~~(R324)~~) R322 of the International Residential Code is not adopted and
1322 the following is substituted:

1323 **Building planning – Flood-resistant construction (IRC (~~(R324)~~) R322).**
1324 Flood-resistant construction (~~(will)~~) shall comply with the flood hazard standards in
1325 K.C.C. chapter 21A.24.

1326 SECTION 66. Ordinance 14914, Section 276, as amended, and K.C.C. 16.05.080
1327 are hereby amended to read as follows:

1328 Chapter 3 of the International Residential Code is supplemented with the
1329 following:

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1330 **Automatic fire sprinkler((s)) systems (IRC ((~~R325~~) R313).** Automatic fire
1331 sprinklers shall be provided as required by International Fire Code Section 903.2((~~10.4~~
1332 ~~of the International Fire Code~~)).

1333 SECTION 67. Ordinance 12560, Section 74, as amended, and K.C.C. 16.05.130
1334 are hereby amended to read as follows:

1335 Appendix K of the International Residential Code is supplemented with the
1336 following:

1337 **Appendix K - Sound transmission - ((~~Sea-Tac~~) Seattle-Tacoma noise**
1338 **program area (IRC ((~~AK101.1~~) AK101.2).** All buildings or structures constructed or
1339 placed ((~~in use~~)) for human occupancy on sites within the ((~~vicinity of~~)) Seattle-Tacoma
1340 International Airport's ((~~that have been included within or enclosed by the Port of~~
1341 ~~Seattle's~~)) Noise Remedy ((~~Program boundaries~~)) Boundary shall comply with the
1342 provisions in the International Building Code Appendix Z.

1343 SECTION 68. Sections 69 through 123 of this ordinance should constitute a new
1344 chapter in K.C.C. Title 16.

1345 NEW SECTION. SECTION 69. There is hereby added to the chapter established
1346 in section 68 of this ordinance a new section to read as follows:

1347 **Scope (IECC C101.2).** The International Energy Conservation Code (IECC)
1348 applies to commercial buildings and their building((s)) sites and associated systems and
1349 equipment unless the code states otherwise. References in this code to Group R shall
1350 include Group I-1, Condition 2 assisted living facilities licensed by Washington state
1351 under chapter 388-78A WAC and Group I-1, Condition 2 residential treatment facilities
1352 licensed by Washington state under chapter 246-337 WAC. Building areas that contain

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1353 Group R sleeping units, regardless of the number of stories in height, are required to
1354 comply with the commercial sections of the ((energy code)) IECC.

1355 **EXCEPTION:** The provisions of this code do not apply to temporary growing
1356 structures used solely for the commercial production of horticultural plants such as
1357 ornamental plants, flowers, vegetables and fruits. A temporary growing structure is not
1358 considered a building for the purposes of this code. However, the installation of other
1359 than listed, portable mechanical equipment or listed, portable lighting fixtures is not
1360 allowed.

1361 NEW SECTION. SECTION 70. There is hereby added to the chapter established
1362 in section 68 of this ordinance a new section to read as follows:

1363 **Intent (IECC C101.3).** This code shall regulate the design and construction of
1364 buildings for the use and conservation of energy and the reduction of carbon emissions
1365 over the life of each building. This code is intended to provide flexibility to permit the
1366 use of innovative approaches and techniques to achieve this objective. This code is not
1367 intended to abridge safety, health or environmental requirements contained in other
1368 applicable codes or ordinances.

1369 NEW SECTION. SECTION 71. There is hereby added to the chapter established
1370 in section 68 of this ordinance a new section to read as follows:

1371 **International Energy Conservation Code definitions not adopted.** The
1372 following definitions in Section 202 of the International Energy Conservation Code are
1373 not adopted:

- 1374 A. Conditioned space;
- 1375 B. Continuous insulation; and

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1376 C. Mass transfer deck slab edge.

1377 NEW SECTION. SECTION 72. There is hereby added to the chapter established
1378 in section 68 of this ordinance a new section to read as follows:

1379 The definitions in this section apply to this chapter and supplement the definitions
1380 contained in the IECC as adopted, amended and supplemented by this title. Where
1381 definitions in this section differ from the definitions in the International codes as
1382 amended and supplemented by K.C.C. chapter 16.03, the definitions in this section shall
1383 control.

1384 A. AAMA: the American Architectural Manufacturers Association.

1385 B. Affordable housing: buildings that:

1386 1. Are owned by a public housing authority for the purpose of providing
1387 housing the restricts at least 51 percent of the units to be occupied by and affordable to
1388 households with incomes no more than 80 percent of area median income;

1389 2. Are owned by a government agency or nonprofit organization and operated as
1390 a shelter, including temporary and emergency shelter facilities providing day and
1391 warming centers that do not provide overnight accommodation, for people receiving
1392 support services from county-recognized assistance programs for homelessness; or

1393 3. Are subject to a regulatory agreement, covenant or other legal instrument
1394 recorded on the property title for a minimum of 40 years that:

1395 a. Restricts at least 51 percent of the units to be occupied by and affordable to
1396 households with incomes no more than 80 percent of area median income; or

1397 b. Restricts initial and subsequent sales of at least 51 percent of the residential
1398 units to households with incomes no more than 80 percent of area median income.

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1399 C. ASHRAE: the American Society of Heating, Refrigerating and Air-
1400 Conditioning Engineers.

1401 D. ASTM: the American Society for Testing and Materials.

1402 E. Automatic control device: a device capable of automatically turning electrical
1403 loads off and on without manual intervention.

1404 F. Btu: British thermal units.

1405 G. Conditioned space: an area, room or space enclosed within the building
1406 thermal envelope and that is directly or indirectly heated or cooled. Spaces are indirectly
1407 heated or cooled where they communicate through openings with conditioned spaces,
1408 where they are separated from conditioned spaces by uninsulated walls, floors or ceilings,
1409 or where they contain uninsulated ducts, piping or other sources of heating or cooling.
1410 Elevator shafts, stair enclosures, enclosed corridors connecting conditioned spaces and
1411 enclosed spaces through which conditioned air is transferred at a rate exceeding three air
1412 changes per hour are considered conditioned spaces for the purposes of the building
1413 thermal envelope requirements.

1414 H. Continuous insulation: insulating material that is continuous across all
1415 structural members without metal thermal bridges other than fasteners that have a total
1416 cross-sectional area not more than 0.04 percent (0.12 percent where all metal thermal
1417 bridges are stainless steel) of the envelope surface through which they penetrate, and
1418 service openings. It is installed on the interior or exterior or is integral to any opaque
1419 surface of the building envelope.

1420 I. Controlled receptacle: an electrical receptacle that is controlled by an
1421 automatic control device.

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- 1422 J. CSA: the CSA group.
- 1423 K. DOAS: dedicated outdoor air system.
- 1424 L. Fossil fuel: a substance used to generate energy as defined in K.C.C.
- 1425 21A.06.532C.
- 1426 M. HPWH: heat pump water heater.
- 1427 N. HVAC: heating, ventilation and air conditioning.
- 1428 O. LLLC: luminaire-level lighting controls.
- 1429 P. _LPD: lighting power density.
- 1430 Q. Mass transfer deck slab: a concrete slab designed to transfer structural load
- 1431 from the building perimeter wall or column line above, laterally to an offset wall or
- 1432 column line below, and which has conditioned or semi-heated space on the inside of the
- 1433 upper wall and exterior or unconditioned space on the outside of the upper wall, such as
- 1434 the transition from an above-grade structure to a below-grade structure or the transition
- 1435 from a tower to a podium. The area of the slab edge shall be defined as the thickness of
- 1436 the slab multiplied by the length of the edge condition. A cantilevered concrete balcony
- 1437 does not constitute a mass transfer deck slab.
- 1438 R. Multi-pass: a heat pump water heater control strategy requiring multiple
- 1439 passes of water through the heat pump to reach the final target storage water temperature.
- 1440 S. NAECA: the National Appliance Energy Conservation Act of 1987.
- 1441 T. NFRC: the National Fenestration Rating Council.
- 1442 U. Single-pass: a heat pump water heater control strategy using variable flow or
- 1443 variable capacity to deliver water from the heat pump at the final target storage water

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1444 temperature in a single pass through the heat exchanger with variable incoming water
1445 temperatures.

1446 V. Solar zone: a clear area or areas reserved solely for current or future
1447 installation of photovoltaic or solar hot water systems.

1448 W. Temperature maintenance: the system used to maintain the temperature of
1449 the building domestic hot water delivery system, typically by circulation and reheating or
1450 by a heat trace system.

1451 X. TSPR: total system performance ratio.

1452 Y. VAV: variable air volume.

1453 NEW SECTION. SECTION 73. There is hereby added to the chapter established
1454 in section 68 of this ordinance a new section to read as follows:

1455 Section C402.1.3 of the International Energy Conservation Code is supplemented
1456 with the following:

1457 **Insulation Component R-value method – applications for Table C402.1.3**
1458 **(IECC C402.1.3.1).** Where the total area of through-wall mechanical equipment is more
1459 than 1 percent of the opaque above-grade wall area in IECC Table C402.1.3, use of the
1460 R-value method is not allowed. See IECC C402.1.4.2.

1461 NEW SECTION. SECTION 74. There is hereby added to the chapter established
1462 in section 68 of this ordinance a new section to read as follows:

1463 Table C402.1.4 of the International Energy Conservation Code is not adopted and
1464 the following is substituted:

1465 **TABLE C402.1.4**

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1466 **OPAQUE THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS,**
 1467 **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-0.025 wood joist	U-0.029 steel 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

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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

1468 Footnotes:

1469 a. Use of opaque assembly U-factors, C-factors, and F-factors from IECC

1470 Appendix A is required unless otherwise allowed by IECC C402.1.4.

1471 b. Through-wall mechanical equipment subject to IECC C402.1.4.2 shall be
 1472 calculated at the U-factor defined in IECC C402.1.4.2. The area-weighted U-value of the
 1473 wall, including through-wall mechanical equipment, shall not exceed the value in the
 1474 table.

1475 c. Heated slab F-factors shall be determined specifically for heated slabs.

1476 Unheated slab factors shall not be used.

1477 d. A mass transfer deck, due to its configuration, is not insulated. The table value
 1478 (U-0.20) shall be used as the baseline value for component performance or total building
 1479 performance path calculations. For the proposed value, the appropriate value from the
 1480 top line of IECC Table A104.3.7.2 shall be used.

1481 e. "Mass floors" shall include floors weighing not less than:

1482 (1) 35 pounds per square foot of floor surface area; or

1483 (2) 25 pounds per square foot of floor surface area where the material weight is

1484 not more than 120 pounds per cubic foot.

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1485 f. Opaque assembly U-factors based on designs tested in accordance with ASTM
1486 C1363 is allowed. The R-value of continuous insulation is allowed to be added or
1487 subtracted from the original test design.

1488 g. Peripheral edges of intermediate concrete floors are included in the above
1489 grade mass wall category and therefore must be insulated as above grade mass walls
1490 unless they meet the definition of a mass transfer deck slab edge. The area of the
1491 peripheral edges of concrete floors shall be defined as the thickness of the slab multiplied
1492 by the perimeter length of the edge condition. See IECC Table A103.3.7.2 for typical
1493 default U-factors for above grade slab edges and footnote c for typical conditions of
1494 above grade slab edges.

1495 h. Intermediate concrete floor slabs penetrating the building thermal envelope
1496 shall comply with IECC C402.2.9. The area of such penetrating concrete floor slabs shall
1497 be defined as the thickness of the slab multiplied by the length of the penetration. The
1498 "exposed concrete" row in IECC Table A103.3.7.2 shall be used for typical default U-
1499 factors for the penetrating concrete slab.

1500 i. Value applies to concrete columns and concrete walls that interrupt mass floor
1501 insulation, but not to perimeter walls or columns separating interior conditioned space
1502 from exterior space.

1503 NEW SECTION. SECTION 75. There is hereby added to the chapter established
1504 in section 68 of this ordinance a new section to read as follows:

1505 Section C402.1.4 of the International Energy Conservation Code is supplemented
1506 with the following:

1507 **Thermal resistance of mechanical equipment penetrations (IECC**
1508 **C402.1.4.2).** When the total area of penetrations from through-wall mechanical
1509 equipment or equipment listed in IECC Table C403.3.2(3) exceeds 1 percent of the
1510 opaque above-grade wall area, the mechanical equipment penetration area shall be
1511 calculated as a separate wall assembly with a default U-factor of 0.5. Mechanical system
1512 ducts and louvers, included those for supply, exhaust and relief, and for condenser air
1513 intake and outlet, are not considered to be mechanical equipment for the purposes of this
1514 section.

1515 **EXCEPTION:** Where mechanical equipment has been tested in accordance with
1516 approved testing standards, the mechanical equipment penetration area may be calculated
1517 as a separate wall assembly using the U-factor determined by such test.

1518 NEW SECTION. SECTION 76. There is hereby added to the chapter established
1519 in section 68 of this ordinance a new section to read as follows:

1520 Section C402.2 of the International Energy Conservation Code is supplemented
1521 with the following:

1522 **Above-grade exterior concrete slabs (IECC C402.2.9).** Above-grade concrete
1523 slabs that penetrate the building thermal envelope, including but not limited to decks and
1524 balconies, shall each include a minimum R-10 thermal break, aligned with the primary
1525 insulating layer in the adjoining wall assemblies. Stainless steel reinforcing bars may
1526 penetrate the thermal break; carbon steel reinforcing bars shall not penetrate the thermal
1527 break. If the total building performance path or the component performance alternative
1528 in IECC C402.1.5 is used and the thermal break required by this section is not provided
1529 where concrete slabs penetrate the building thermal envelope, the sectional area of the

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1530 penetration shall be assigned the default U-factors from the "exposed concrete" row of
1531 IECC Table A103.3.7.2.

1532 **EXCEPTION:** Mass transfer deck slab edges.

1533 NEW SECTION. SECTION 77. There is hereby added to the chapter established
1534 in section 68 of this ordinance a new section to read as follows:

1535 Section C402.2 of the International Energy Conservation Code is supplemented
1536 with the following:

1537 **Vertical fenestration intersection with opaque walls (IECC C402.2.10).**

1538 Vertical fenestration shall comply with the following as applicable:

1539 1. Where wall assemblies include continuous insulation, the exterior glazing
1540 layer of vertical fenestration and any required thermal break in the frame shall each be
1541 aligned within 2 inches laterally of either face of the continuous insulation layer.

1542 2. Where wall assemblies do not include continuous insulation, the exterior
1543 glazing layer of vertical fenestration and any required thermal break in the frame shall
1544 each be aligned within the thickness of the wall insulation layer and not more than 2
1545 inches laterally from the exterior face of the outermost insulation layer.

1546 3. Where the exterior face of the vertical fenestration frame does not extend to
1547 the exterior face of the opaque wall rough opening, the exposed exterior portion of the
1548 rough opening shall be covered with either a material having an R-value not less than R-
1549 3, or with minimum 1.5-inch thickness wood.

1550 NEW SECTION. SECTION 78. There is hereby added to the chapter established
1551 in section 68 of this ordinance a new section to read as follows:

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1552 Section C402.4 of the International Energy Conservation Code is not adopted and
1553 the following is substituted:

1554 **Fenestration – prescriptive (IECC C402.4).** Fenestration shall comply with
1555 IECC C402.4 through C402.4.4 and IECC Table C402.4. Daylight responsive controls
1556 shall comply with this section and IECC C405.2.4.

1557 **EXCEPTION:** For prescriptive envelope compliance, single-pane glazing is
1558 allowed for security purposes and for revolving doors, not to exceed one percent of the
1559 gross exterior wall area. Where IECC C402.1.5, component performance alternative, is
1560 used, the single glazing shall be included in the percentage of the total glazing area, U-
1561 factor and SHGC requirements.

1562 **Table C402.4**

1563 **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	

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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
$0.2 \leq \text{PF} < 0.5$	0.46	0.56
PF ≥ 0.5	0.61	0.61
Skylights		
U-factor	U-0.45	
SHGC	0.32	

1564 Footnotes:

1565 a. U-factor and SHGC shall be rated in accordance with NFRC 100. This
 1566 category includes curtain wall, storefront, ribbon wall, window wall and similar site-
 1567 assembled systems. This category does not include punched-opening manufactured
 1568 windows except for "Class AW" windows as designated by AAMA.

1569 b. "Fixed" includes curtain wall, storefront, picture windows and other fixed
 1570 windows.

1571 c. "Operable" includes operable fenestration products other than "entrance
 1572 doors."

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1573 d. "Entrance door" includes glazed swinging entrance doors and glazed automatic
1574 sliding entrance doors. Other doors which are not entrance doors, including manually
1575 operated sliding glass doors, are considered "operable."

1576 e. "N" indicates vertical fenestration oriented within 30 degrees of true north.
1577 "SEW" indicates orientations other than "N."

1578 f. Fenestration that is entirely within the conditioned space or is between
1579 conditioned and other enclosed space is exempt from solar heat gain coefficient
1580 requirements and not included in the SHGC calculation.

1581 NEW SECTION. SECTION 79. There is hereby added to the chapter established
1582 in section 68 of this ordinance a new section to read as follows:

1583 Section C402.4.1.1.2 of the International Energy Conservation Code is not
1584 adopted and the following is substituted:

1585 **High-performance fenestration (IECC C402.4.1.1.2).** The following
1586 requirements shall be met:

1587 1. All vertical fenestration in the building shall comply with the following
1588 maximum U-factors:

1589 1.1. U-factor for Class AW windows rated in accordance with
1590 AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products
1591 (fixed) = 0.30.

1592 1.2. U-factor for Class AW windows rated in accordance with
1593 AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products
1594 (operable) = 0.36.

1595 1.3. Entrance doors = 0.60.

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1596 1.4. U-factor for all other vertical fenestration, fixed = 0.22.

1597 1.5. U-factor for all other vertical fenestration, operable = 0.24.

1598 2. The SHGC of the vertical fenestration shall be no more than 0.90 times the
1599 maximum SHGC values listed in IECC Table C402.4.

1600 An area-weighted average may satisfy the U-factor requirement for each
1601 fenestration product category listed in subsection 1 of this section. Individual
1602 fenestration products from different fenestration product categories shall not be combined
1603 in calculating the area-weighted average U-factor.

1604 NEW SECTION. SECTION 80. There is hereby added to the chapter established
1605 in section 68 of this ordinance a new section to read as follows:

1606 Section C402.4.2.1 of the International Energy Conservation Code is not adopted
1607 and the following is substituted:

1608 **Lighting controls in daylight zones under skylights (IECC C402.4.2.1).**

1609 Where IECC 405.2.3.1 is cited in IECC 402.4.2, IECC 405.2.4 shall be used instead.

1610 Daylight responsive controls complying with IECC C405.2.4 shall be provided to control
1611 all electric lights within toplit zones.

1612 NEW SECTION. SECTION 81. There is hereby added to the chapter established
1613 in section 68 of this ordinance a new section to read as follows:

1614 Section C403.1.1 of the International Energy Conservation Code is supplemented
1615 with the following:

1616 **HVAC TSPR – medical office and residential applications (C403.1.1.1).**

1617 Systems serving medical offices, and the dwelling units and residential common areas
1618 within R-2 multifamily, shall comply with 403.1.1.

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1619 **EXCEPTION:** Buildings or areas of medical office buildings that comply fully
1620 with ASHRAE Standard 170, including but not limited to surgical centers, or that are
1621 required by other applicable codes or standards to provide air handling units that operate
1622 24 hours per day, 7 days per week.

1623 NEW SECTION. SECTION 82. There is hereby added to the chapter established
1624 in section 68 of this ordinance a new section to read as follows:

1625 Section C403.1 of the International Energy Conservation Code is supplemented
1626 with the following:

1627 **Use of electric resistance and fossil fuel-fired HVAC heating equipment (IECC**
1628 **C403.1.4).** HVAC heating energy shall not be provided by electric resistance or fossil fuel
1629 combustion appliances. For the purposes of this section, electric resistance HVAC heating
1630 appliances include but are not limited to electric baseboard, electric resistance fan coil and
1631 VAV electric resistance terminal reheat units and electric resistance boilers. For the
1632 purposes of this section, fossil fuel combustion HVAC heating appliances include but are
1633 not limited to appliances burning natural gas, heating oil, propane or other fossil fuels.

1634 **EXCEPTIONS:**

1635 1. Pasteurization. Electric resistance heat controls are allowed to reset the supply
1636 water temperature of hydronic heating systems that serve service water heating heat
1637 exchangers during pasteurization cycles of the service hot water storage volume. The
1638 hydronic heating system supply water temperature shall be configured to be 145° F or
1639 lower during the pasteurization cycle.

1640 2. Low heating capacity. Buildings or areas of buildings, other than dwelling
1641 units or sleeping units, that meet the interior temperature requirements of International

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

1649 3. Dwelling or sleeping units. Dwelling or sleeping units having an installed
1650 HVAC heating capacity no more than 750 Watts in any separate habitable room with
1651 exterior fenestration may be heated using electric resistance appliances.

1652 3.1 Corner rooms. A room within a dwelling or sleeping unit that has two
1653 primary walls facing different cardinal directions, each with exterior fenestration, is
1654 permitted to have an installed HVAC heating capacity no more than 1000 watts. Bay
1655 windows and other minor offsets are not considered primary walls.

1656 4. Small buildings. Buildings with less than 2,500 square feet of conditioned floor
1657 area may be heated using electric resistance appliances.

1658 5. Defrost. Heat pumps may use electric resistance as the first stage of heating
1659 when a defrost cycle is required and is in operation.

1660 6. Air-to-air heat pumps. Buildings may use electric resistance auxiliary
1661 heating to supplement heat pump heating for air-to-air heat pumps with that meet the
1662 following conditions:

1663 6.1. Internal electric resistance heaters have controls that prevent supplemental
1664 heater operation when the heating load can be met by the heat pump alone during both

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1665 steady-state operation and setback recovery.

1666 6.2. The heat pump controls are configured to use the compressor to provide

1667 heating down to an outdoor air temperature of 17° F or lower;

1668 6.3. The heat pump complies with the following:

1669 a. Controlled by a digital or electronic thermostat designed for heat pump use

1670 that energizes the supplemental heat only when the heat pump has insufficient capacity to

1671 maintain set point or to warm up the space at a sufficient rate;

1672 b. Controlled by a multistage space thermostat and an outdoor air thermostat

1673 wired to energize supplemental heat only on the last stage of the space thermostat and when

1674 outdoor air temperature is less than 32° F; or

1675 c. The minimum efficiency of the heat pump is regulated by NAECA, its rating

1676 meets the requirements shown in IECC Table C403.3.2(2), and its rating includes all usage

1677 of internal electric resistance heating.

1678 6.4 The heat pump rated heating capacity is sized to meet the heating load at an

1679 outdoor air temperature of 32° F or lower and has a rated heating capacity at 47° F no less

1680 than 2 times more than supplemental electric resistance heating capacity, or uses the

1681 smallest available factory-available internal electric resistance heater.

1682 7. Air-to-water heat pumps, up to 2,000 MBH. Buildings may use electric

1683 resistance auxiliary heating to supplement heat pump heating for hydronic heating

1684 systems that have air-to-water heat pump heating capacity no more than 2,000 kBtu/h at

1685 47° F, and that meet the following conditions:

1686 7.1. Controls for the auxiliary electric resistance heating are configured to lock

1687 out the supplemental heat when the outside air temperature is above 32° F, unless the hot

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1688 water supply temperature setpoint to the building heat coils cannot be maintained for 20
1689 minutes;

1690 7.2. The heat pump controls are configured to use the compressor as the first stage
1691 of heating down to an outdoor temperature of 17° F or lower except during startup or
1692 defrost operation; and

1693 7.3. The heat pump rated heating capacity at 47° F is no less than 2 times more
1694 than supplemental electric resistance heating capacity.

1695 8. Air-to-water heat pumps, up to 3,000 MBH. Buildings may use electric
1696 resistance auxiliary heating to supplement heat pump heating for hydronic heating
1697 systems that have air-to-water heat pump heating capacity more than 2,000 kBtu/hr and
1698 no more than 3,000 kBtu/hr at 47° F, and that meet the following conditions:

1699 8.1. Controls for the auxiliary electric resistance heating are configured to lock
1700 out the supplemental heat when the outside air temperature is above 36° F, unless the hot
1701 water supply temperature setpoint to the building heat coils cannot be maintained for 20
1702 minutes;

1703 8.2. The heat pump controls are configured to use the compressor as the first stage
1704 of heating down to an outdoor temperature of 17° F or lower except during startup or
1705 defrost operation; and

1706 8.3. The heat pump rated heating capacity at 47° F is no less than 1.75 times more
1707 than supplemental electric resistance heating capacity.

1708 9. Air-to-water heat pumps, over 3,000 MBH. Buildings may use electric
1709 resistance auxiliary heating to supplement heat pump heating for hydronic heating

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1710 systems that have air-to-water heat pump heating capacity more than 3,000 kBtu/h at
1711 47° F, and that meet the following conditions:

1712 9.1. Controls for the auxiliary electric resistance heating are configured to lock
1713 out the supplemental heat when the outside air temperature is above 40° F, unless the hot
1714 water supply temperature setpoint to the building heat coils cannot be maintained for 20
1715 minutes;

1716 9.2. The heat pump controls are configured to use the compressor as the first stage
1717 of heating down to an outdoor temperature of 17° F or lower except during startup or
1718 defrost operation; and

1719 9.3. The heat pump rated heating capacity at 47° F is no less than 2 times more
1720 than supplemental electric resistance heating capacity.

1721 10. Ground source heat pumps. Buildings may use electric resistance auxiliary
1722 heating to supplement heat pump heating for hydronic heating systems with ground source
1723 heat pump equipment that meets the following conditions:

1724 10.1. Controls for the auxiliary resistance heating are configured to lock out the
1725 supplemental heat when the outdoor air temperature is above 32° F, unless the hot water
1726 supply temperature setpoint to the building heat coils cannot be maintained for 20 minutes;

1727 10.2. The heat pump controls are configured to use the compressor as the first
1728 stage of heating down to an outdoor temperature of 17° F or lower; and

1729 10.3. The heat pump rated heating capacity at 32° F entering water conditions is
1730 no less than 2 times more than supplemental electric resistance heating capacity.

1731 11. Small systems. Buildings in which electric resistance or fossil fuel appliances,
1732 including decorative appliances, in total either provide less than 5 percent of the total

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1733 building HVAC system heating capacity or serve less than 5 percent of the conditioned
1734 floor area.

1735 12. Specific conditions. Portions of buildings that require fossil fuel or electric
1736 resistance space heating for specific conditions approved by the code official for research,
1737 health care, process or other specific needs that cannot practicably be served by heat pump
1738 or other space heating systems. This does not constitute a blanket exception for any
1739 occupancy type.

1740 13. Kitchen exhaust. Make-up air for commercial kitchen exhaust systems
1741 required to be tempered by International Mechanical Code Section 508.1.1 may be heated
1742 using electric resistance appliances.

1743 14. District energy. Steam or hot water district energy systems that use fossil
1744 fuels as their primary source of heat energy, that serve multiple buildings, and that were
1745 already in existence before the effective date of this ordinance, including more energy-
1746 efficient upgrades to such existing systems, may serve as the primary heating energy
1747 source.

1748 15. Heat tape. Heat tape is allowed where it protects water-filled equipment and
1749 piping located outside of the building thermal envelope if it is configured and controlled to
1750 be automatically turned off when the outside air temperature is above 40° F.

1751 16. Temporary systems. Temporary electric resistance heating systems are allowed
1752 where serving future tenant spaces that are unfinished and unoccupied if the heating
1753 equipment is sized and controlled to achieve interior space temperatures no higher than 40°
1754 F.

1755 17. Emergency generators. Emergency generators are permitted to use fossil fuels.

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1756 NEW SECTION. SECTION 83. There is hereby added to the chapter established
1757 in section 68 of this ordinance a new section to read as follows:

1758 Section C403.3.5.1 of the International Energy Conservation Code is not adopted
1759 and the following is substituted:

1760 **Energy recovery ventilation with DOAS (IECC C403.3.5.1).** The DOAS shall
1761 include energy recovery ventilation. The energy recovery system shall have a 60 percent
1762 enthalpy recovery effectiveness in accordance with IECC C403.7.6. For DOAS having a
1763 total fan system motor nameplate hp less than 5 hp, total combined fan power shall not
1764 exceed 1 W/cfm of outdoor air. For DOAS having a total fan system motor hp more than
1765 or equal to 5 hp, refer to fan power limitations of IECC C403.8.1. This fan power
1766 restriction applies to each dedicated outdoor air unit in the permitted project, but does not
1767 include the fan power associated with the zonal heating or cooling equipment or both.
1768 The airflow rate thresholds for energy recovery requirements in IECC Tables
1769 C403.7.6.1(1) and C403.7.6.1(2) do not apply.

1770 **EXCEPTIONS:**

- 1771 1. Occupied spaces with the following characteristics:
- 1772 1.1. complies with IECC C403.7.6;
- 1773 1.2. served by equipment less than 5,000 cfm;
- 1774 1.3. has an average occupant load 15 people or more per 1,000 square feet (93
1775 m²) of floor area (as established in International Mechanical Code Table 403.3.1.1);
- 1776 1.4. includes demand control ventilation configured to reduce outdoor air by at
1777 least 50 percent below design minimum ventilation rates when the actual occupancy of
1778 the space served by the system is less than the design occupancy; and

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1779 1.5. is smaller than 650 square feet.

1780 2. Systems installed for the sole purpose of providing makeup air for systems
1781 exhausting toxic, flammable, paint or corrosive fumes or dust, dryer exhaust or
1782 commercial kitchen hoods used for collecting and removing grease vapors and smoke.

1783 3. The energy recovery systems for R-1 and R-2 occupancies are permitted to
1784 provide 60 percent minimum sensible heat recovery effectiveness in lieu of 60 percent
1785 enthalpy recovery effectiveness. The return/exhaust air stream temperature for heat
1786 recovery device selection shall be 70° F or as determined by an approved calculation
1787 procedure.

1788 NEW SECTION. SECTION 84. There is hereby added to the chapter established
1789 in section 68 of this ordinance a new section to read as follows:

1790 Section C403.4.1.1 of the International Energy Conservation Code is not adopted
1791 and the following is substituted:

1792 **Heat pump supplementary heat (IECC C403.4.1.1).** Heat pumps equipped
1793 with internal electric resistance heaters shall have controls that prevent supplemental
1794 heater operation when the heating load can be met by the heat pump alone during both
1795 steady-state operation and setback recovery. Supplemental heater operation is permitted
1796 during outdoor coil defrost cycles. Heat pumps equipped with supplementary heaters
1797 shall comply with all conditions of IECC C403.1.4.

1798 **EXCEPTION:** Heat pumps whose minimum efficiency is regulated by NAECA
1799 and whose ratings meet the requirements shown in IECC Table C403.3.2(2) and include
1800 all usage of internal electric resistance heating.

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1801 NEW SECTION. SECTION 85. There is hereby added to the chapter established
1802 in section 68 of this ordinance a new section to read as follows:

1803 Section C403.7.1 of the International Energy Conservation Code is not adopted
1804 and the following is substituted:

1805 **Demand control ventilation (IECC C403.7.1).** Demand control ventilation
1806 (DCV) shall be provided for spaces larger than 500 square feet (46.5 m) and with an
1807 average occupant load of 15 people or more per 1,000 square feet (93 m²) of floor area,
1808 as established in International Mechanical Code Table 403.3.1.1, and served by systems
1809 with one or more of the following:

- 1810 1. An air-side economizer;
- 1811 2. Automatic modulating control of the outdoor air damper; or
- 1812 3. A design outdoor airflow more than 3,000 cfm (1,416 L/s).

1813 **EXCEPTIONS:**

1814 1. Systems with energy recovery complying with IECC C403.7.6.1 or IECC
1815 C403.3.5.1. This exception is not available for space types located within the
1816 "inclusions" column of Groups A-1 and A-3 occupancy classifications of IECC Table
1817 C403.3.5.

1818 2. Multiple-zone systems without direct digital control of individual zones
1819 communicating with a central control panel.

1820 3. Multiple-zone systems with a design outdoor airflow less than 750 cfm (354
1821 L/s).

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1822 4. Spaces, including but not limited to dining areas, where more than 75 percent
1823 of the space design outdoor airflow is transfer air required for makeup air supplying an
1824 adjacent commercial kitchen.

1825 5. Ventilation provided only for process loads.

1826 6. Spaces with one of the following occupancy categories, as defined by the
1827 International Mechanical Code: correctional cells, daycare sickrooms, science labs,
1828 barbers, beauty and nail salons and bowling alley seating.

1829 7. Dormitory sleeping units.

1830 NEW SECTION. SECTION 86. There is hereby added to the chapter established
1831 in section 68 of this ordinance a new section to read as follows:

1832 Section C403.7.6 of the International Energy Conservation Code is not adopted
1833 and the following is substituted:

1834 **Energy recovery ventilation systems (IECC C403.7.6).** Any system with
1835 minimum outside air requirements at design conditions more than 5,000 cfm or any
1836 system where the system's supply airflow rate exceeds the value listed in IECC Tables
1837 C403.7.6(1) and C403.7.6(2), based on the climate zone and percentage of outdoor
1838 airflow rate at design conditions, shall include an energy recovery system. IECC Table
1839 C403.7.6(1) shall be used for all ventilation systems that operate less than 8,000 hours
1840 per year, and IECC Table C403.7.6(2) shall be used for all ventilation systems that
1841 operate 8,000 hours or more per year. The energy recovery system shall have the
1842 capability to provide a change in the enthalpy of the outdoor air supply of not less than 60
1843 percent of the difference between the outdoor air and return air enthalpies, at design
1844 conditions. Where an air economizer is required, the energy recovery system shall

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1845 include a bypass of the energy recovery media for both the outdoor air and exhaust air or
1846 return air dampers and controls which permit operation of the air economizer as required
1847 by IECC C403.5. Where a single room or space is supplied by multiple units, the
1848 aggregate ventilation (cfm) of those units shall be used in applying this requirement. The
1849 return/exhaust air stream temperature for heat recovery device selection shall be 70° F
1850 (21° C) at 30 percent relative humidity, or as calculated by the registered design
1851 professional.

1852 **EXCEPTIONS:**

1853 1. The energy recovery systems for occupancy type I-2 hospitals, medical office
1854 buildings and buildings that primarily consist of technical laboratory spaces may provide
1855 a change of enthalpy of the outdoor air and return air of not less than 50 percent of the
1856 difference between the outdoor air and return air enthalpies, at design conditions. These
1857 occupancies may also use exception 3.

1858 2. The energy recovery systems for R-1 and R-2 occupancies shall have a 60
1859 percent minimum sensible heat recovery effectiveness, in lieu of 60 percent enthalpy
1860 recovery effectiveness. The return/exhaust air stream temperature for heat recovery
1861 device selection shall be 70° F (21° C), or as calculated by the registered design
1862 professional.

1863 3. An energy recovery ventilation system shall not be required under the
1864 following conditions:

1865 3.1. Where energy recovery systems are restricted by International Mechanical
1866 Code Section 514 to sensible energy, recovery shall comply with the following:

1867 a. Kitchen exhaust systems where they comply with IECC C403.7.7.1;

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1868 b. Laboratory fume hood systems where they comply with Exception 2 of
1869 IECC C403.7.6; or

1870 c. Other sensible energy recovery systems with the capability to provide a
1871 change in dry bulb temperature of the outdoor air supply of not less than 50 percent of the
1872 difference between the outdoor air and the return air dry bulb temperatures, at design
1873 conditions.

1874 3.2. Laboratory fume hood systems that include at least one of the following
1875 features and also comply with IECC C403.7.7.2:

1876 a. Variable-air-volume hood exhaust and room supply systems capable of
1877 reducing exhaust and makeup air volume to 50 percent or less of design values; or

1878 b. Direct makeup (auxiliary) air supply equal to at least 75 percent of the
1879 exhaust rate, heated no warmer than 2° F (1.1° C) above room set point, cooled to no
1880 cooler than 3° F (1.7° C) below room set point, no humidification added and no
1881 simultaneous heating and cooling used for dehumidification control.

1882 3.3. Systems serving spaces that are heated to less than 60° F (15.5° C) and are
1883 not cooled.

1884 3.4. Where more than 60 percent of the outdoor air heating energy is provided
1885 from site-recovered energy.

1886 3.5. Systems exhausting toxic, flammable, paint or corrosive fumes or dust.

1887 3.6. Cooling energy recovery in Climate Zones 3C, 4C, 5B, 5C, 6B, 7 and 8.

1888 3.7. Systems requiring dehumidification that use energy recovery in series with
1889 the cooling coil.

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1890 3.8. Multi-zone systems where the supply airflow rate is less than the values
1891 specified in IECC Tables C403.7.6(1) and C403.7.6(2) for the corresponding percent of
1892 outdoor air. Where a value of NR is listed, energy recovery shall not be required.

1893 3.9. Equipment which meets the requirements of IECC C403.9.2.4.

1894 3.10. Systems serving Group R-1 and R-3 dwelling or sleeping units where the
1895 largest source of air exhausted at a single location at the building exterior is less than 25
1896 percent of the design outdoor air flow rate.

1897 NEW SECTION. SECTION 87. There is hereby added to this chapter established
1898 in section 68 of this ordinance a new section to read as follows:

1899 Section C403.10 of the International Energy Conservation Code is not adopted
1900 and the following is substituted:

1901 **C403.10 Construction of HVAC system elements.** Ducts, plenums, piping and
1902 other elements that are part of an HVAC system shall be constructed and insulated in
1903 accordance with Sections C403.10.1 through C403.10.4.

1904 NEW SECTION. SECTION 88. There is hereby added to the chapter established
1905 in section 68 of this ordinance a new section to read as follows:

1906 Section C403.10 of the International Energy Conservation Code is supplemented
1907 with the following:

1908 **Insulation of refrigerant piping (C403.10.4).** Refrigerant piping, other than
1909 piping factory installed in HVAC equipment, shall have minimum 1/2-inch insulation
1910 within conditioned spaces and 1-inch insulation outside of conditioned spaces, at a
1911 conductivity rating of 0.21 to 0.26 Btu x in/(h x ft² x ° F) with a mean temperature rating
1912 of 75° F.

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1913 NEW SECTION. SECTION 89. There is hereby added to the chapter established
1914 in section 68 of this ordinance a new section to read as follows:

1915 Section C403 of the International Energy Conservation Code is supplemented
1916 with the following:

1917 **Commercial food service (C403.14).** The following types of equipment within
1918 the scope of the applicable Energy Star program shall comply with the applicable energy-
1919 efficiency and water-efficiency criteria required to achieve the Energy Star label:

- 1920 1. Commercial fryers.
- 1921 2. Commercial hot food holding cabinets.
- 1922 3. Commercial steam cookers.
- 1923 4. Commercial dishwashers.

1924 NEW SECTION. SECTION 90. There is hereby added to the chapter established
1925 in section 68 of this ordinance a new section to read as follows:

1926 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code
1927 are not adopted and the following is substituted:

1928 **Service water heating system type (C404.2.1 and C404.2.2).** In buildings with
1929 central service water heating systems serving four or more Group R-1 or R-2 dwelling or
1930 sleeping units, and in any other building that has a heated water circulation system or a
1931 combined water heating capacity greater than 15 kW (51,195 Btu/h) under a single
1932 permit, the primary service water heating equipment shall not use fossil fuel combustion
1933 or electric resistance. Service hot water shall be provided by an air-source HPWH
1934 system meeting the requirements of this section, or a ground-source HPWH system.

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1935 Supplemental service water heating equipment is permitted to use electric resistance in
1936 compliance with IECC C404.2.1.2 and C404.2.2.2.

1937 **EXCEPTIONS:**

1938 1. Unitary heat pump water heaters located in conditioned space are permitted
1939 where they are sized to meet all calculated service water heating demand using the heat
1940 pump compressor, and not supplementary heat.

1941 2. A service water heating system in a tenant space under a separate permit with a
1942 total heating capacity no greater than 15 kW (51,195 Btu/h) is permitted to be electric
1943 resistance.

1944 3. Point of use instantaneous electric water heaters serving fixtures no more than
1945 8 feet of developed pipe length from the water heater are permitted and do not contribute
1946 to the building combined water heating capacity calculation.

1947 4. Solar thermal, wastewater heat recovery, other approved waste heat recovery,
1948 water-source heat pump system utilizing waste heat or combinations thereof, are
1949 permitted to offset all or any portion of the required HPWH capacity where such systems
1950 comply with this code and the Plumbing Code.

1951 5. Systems meeting the requirements of the Northwest Energy Efficiency
1952 Alliance (NEEA) Advanced Water Heater Specifications for central service water heating
1953 systems.

1954 NEW SECTION. SECTION 91. There is hereby added to the chapter established
1955 in section 68 of this ordinance a new section to read as follows:

1956 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code
1957 are supplemented with the following:

1958 **System Design (C404.2.1.1 and C404.2.2.1).** The system proposed to meet
1959 IECC C404.2.1 and C404.2.2 shall conform to the following design requirements:

1960 1. Primary heat pump system sizing: The system shall include a primary service
1961 minimum output at 40° F outdoor air temperature that provides sufficient hot water for
1962 occupancy uses as calculated using the equipment manufacturer's selection criteria or
1963 another approved methodology. Air source heat pumps shall be sized to deliver no less
1964 than 50 percent of the calculated demand for hot water production during the peak
1965 demand period when entering air temperature is 24° F.

1966 **EXCEPTION.** 50 percent sizing at 24° F is not required for heat pumps located
1967 in a below-grade enclosed parking structure or other ventilated and unconditioned space
1968 that is not anticipated to fall below 40° F at any time.

1969 2. Primary hot water storage sizing. The system shall provide sufficient hot
1970 water, as calculated using an approved methodology, to satisfy peak demand period
1971 requirements.

1972 3. The service water heating system shall be configured to conform to the
1973 following:

1974 3.1. For single-pass HPWHs, temperature maintenance heating provided for
1975 reheating return water from the building's heated water circulation system shall be
1976 physically decoupled from the primary service water heating system storage tank(s) in a
1977 manner that prevents destratification of the primary system storage tanks. Temperature
1978 maintenance heating is permitted to be provided by electric resistance or a separate
1979 dedicated heat pump system; or

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1980 3.2. For multi-pass HPWHs, recirculated temperature maintenance water is
1981 permitted to be returned to the primary water storage tanks for reheating.

1982 4. Mixing valve: A thermostatic mixing valve capable of supplying hot water to
1983 the building at the user temperature set point shall be provided, in compliance with
1984 requirements of the Uniform Plumbing Code and the HPWH manufacturer's installation
1985 guidelines. The mixing valve shall be sized and rated to deliver tempered water in a
1986 range from the minimum flow of the temperature maintenance recirculation system up to
1987 the maximum demand for the fixtures served.

1988 NEW SECTION. SECTION 92. There is hereby added to the chapter established
1989 in section 68 of this ordinance a new section to read as follows:

1990 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code
1991 are supplemented with the following:

1992 **Supplemental Water Heaters (C404.2.1.2 and C404.2.2.2).** Total
1993 supplemental electric resistance water heating equipment shall not have an output
1994 capacity more than the primary water heating equipment at 40° F entering air
1995 temperature. Supplemental electric resistance heating is permitted for the following uses:

1996 1. Temperature maintenance of heated-water circulation systems, physically
1997 separate from the primary service water heating system. Temperature maintenance
1998 heating capacity shall be no more than the primary water heating capacity at 40° F.

1999 2. Defrost of compressor coils.

2000 3. Heat tracing of piping for freeze protection or for temperature maintenance in
2001 lieu of recirculation of hot water.

2002 4. Backup or low ambient temperature conditions if:

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2003 4.1. The supplemental heating capacity is no more than the primary service
2004 water heating capacity at 40° F;

2005 4.2. During normal operations the supplemental heating is controlled to operate
2006 only when the entering air temperature at the air-source HPWH is below 40° F, and the
2007 primary HPWH compressor continues to operate together with the supplemental heating
2008 when the entering air temperature is between 17° F and 40° F; and

2009 4.3. The primary water heating equipment cannot satisfy the system load due to
2010 equipment failure or entering air temperature below 40° F.

2011 5. Supplemental heating downstream from a multi-pass HPWH system.

2012 6. Stand-alone electric water heaters serving single zones not served by the
2013 central water heating system.

2014 NEW SECTION. SECTION 93. There is hereby added to the chapter established
2015 in section 68 of this ordinance a new section to read as follows:

2016 Section C404.6 of the International Energy Conservation Code is supplemented
2017 with the following:

2018 **Storage tank insulation(C404.6.1).** Unfired storage tanks used to store service
2019 hot water at temperatures above 130° F shall be wrapped with an insulating product,
2020 installed in accordance with the insulation manufacturer's instructions and providing a
2021 minimum of R-2 additional insulation for every 10° F increase in stored water
2022 temperature above 130° F. Such additional insulation is also permitted to be integral to
2023 the tank. The insulation is permitted to be discontinuous at structural supports.

2024 NEW SECTION. SECTION 4. There is hereby added to the chapter established
2025 in section 68 of this ordinance a new section to read as follows:

2026 Section C404.7.1.2 of the International Energy Conservation Code is
2027 supplemented with the following:

2028 **Multiple riser systems – thermostatic balancing valve (IECC C404.7.1.2.1).**

2029 For heated water circulation systems that have multiple risers and use a variable flow
2030 circulation pump, each riser shall have a self-actuating thermostatic balancing valve.

2031 NEW SECTION. SECTION 95. There is hereby added to the chapter established
2032 in section 68 of this ordinance a new section to read as follows:

2033 Section C404.7.1 of the International Energy Conservation Code is supplemented
2034 with the following:

2035 **Electronic thermostatic mixing valve (IECC C404.7.1.3).** Where a heated
2036 water circulation system uses an electronic thermostatic mixing valve (TMV) to control
2037 the temperature of hot water supplied to the building, the thermostatic mixing valve
2038 (TMV) shall be configured so that it either reverts closed to fully cold, or maintains its
2039 current valve position upon power failure or cessation of circulation flow.

2040 NEW SECTION. SECTION 96. There is hereby added to the chapter established
2041 in section 68 of this ordinance a new section to read as follows:

2042 Section C404.7.3 of the International Energy Conservation Code is supplemented
2043 with the following:

2044 **Pipe insulation (IECC C404.7.3.1).** For heated water circulation systems, both
2045 supply and return pipe insulation shall be at minimum one inch thicker than that required
2046 by IECC Table C403.10.3.

2047 **EXCEPTION:** Where piping is centered within a wall, ceiling or floor framing
2048 cavity with a depth at least four inches more than the diameter of the pipe and that is

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2049 completely filled with batt or blown-in insulation, additional pipe insulation is not
2050 required.

2051 NEW SECTION. SECTION 97. There is hereby added to the chapter established
2052 in section 68 of this ordinance a new section to read as follows:

2053 Section C404.8 of the International Energy Conservation Code is not adopted and
2054 the following is substituted:

2055 **Demand recirculation controls (C404.8).** Demand recirculation water systems
2056 are not permitted.

2057 NEW SECTION. SECTION 98. There is hereby added to the chapter established
2058 in section 68 of this ordinance a new section to read as follows:

2059 Section C405.2 of the International Energy Conservation Code is not adopted and
2060 the following is substituted:

2061 **Lighting controls (IECC C405.2).** Lighting systems shall be provided with
2062 controls that comply with the following:

2063 1. Lighting controls as specified in IECC C405.2.1 through C405.2.7. Any
2064 contiguous open office area larger than 5,000 square feet shall have its general lighting
2065 controlled by:

2066 1.1. An enhanced digital lighting control system conforming to the requirements
2067 of IECC C406.4; or

2068 1.2. LLLC conforming to the requirements in subsection 2. of this section; or

2069 2. LLLC for all areas and lighting controls specified in IECC C405.2.1, C405.2.3
2070 and C405.2.5. The LLLC luminaires shall be independently configured to:

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2071 2.1. Monitor occupant activity to brighten or dim lighting when occupied or
2072 unoccupied, respectively;

2073 2.2. Monitor ambient light, both electric and daylight, and brighten or dim
2074 artificial light to maintain desired light level. A maximum of 8 fixtures may be
2075 controlled together to maintain uniform light levels within a single daylight zone; and

2076 2.3. For each control strategy, be capable of configuration and re-configuration
2077 of performance parameters including bright and dim set points, timeouts, dimming fade
2078 rates, sensor sensitivity adjustments and wireless zoning configuration.

2079 **EXCEPTIONS:** Except for specific application controls required by IECC
2080 C405.2.5, lighting controls are not required for the following:

2081 1. Areas designated as security or emergency areas that are required to be
2082 continuously lighted.

2083 2. Means of egress illumination serving the exit access that does not exceed 0.01
2084 watts per square foot of building area.

2085 3. Emergency egress lighting that is normally off.

2086 4. Industrial or manufacturing process areas required for production and safety.

2087 NEW SECTION. SECTION 99. There is hereby added to the chapter established
2088 in section 68 of this ordinance a new section to read as follows:

2089 Table C405.4.2(1) of the International Energy Conservation Code is not adopted
2090 and the following is substituted:

2091 **Table C405.4.2(1)**

2092 **Interior Lighting Power Allowances—Building Area Method**

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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
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

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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

2093 Footnotes:

2094 a. Where sleeping units are excluded from lighting power calculations by
 2095 application of IECC R404.1, neither the area of the sleeping units nor the wattage of
 2096 lighting in the sleeping units shall be counted.

2097 b. Where dwelling units are excluded from lighting power calculations by
 2098 application of IECC R404.1, neither the area of the dwelling units nor the wattage of
 2099 lighting in the dwelling units shall be counted.

2100 c. Dwelling units are excluded. Neither the area of the dwelling units nor the
 2101 wattage of lighting in the dwelling units shall be counted.

2102 NEW SECTION. SECTION 100. There is hereby added to the chapter
 2103 established in section 68 of this ordinance a new section to read as follows:

2104 Table C405.4.2(2) of the International Energy Conservation Code is not adopted
 2105 and the following is substituted:

2106 **Table C405.4.2(2)**

2107 **Interior Lighting Power Allowances—Space-by-Space Method**

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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
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

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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
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

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Locker room	0.47
Lounge /breakroom ⁿ	
In a health care facility	0.42
Otherwise	0.53
Office	
Enclosed ≤ 250	0.67
Enclosed ≥ 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 ⁿ	0.57
Sales area	0.95
Seating area, general	0.21
Stairwell ⁿ	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

2108

Building Specific Space-by-Space Types^a

Building Specific Space-by-Space Types^a	LPD^d (w/ft²)
Automotive - (See Vehicular maintenance, above)	

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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 ^g	0.21
Gymnasium/fitness center	
In an exercise area	0.83
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 ^g	0.68
In a physical therapy room	0.91
In a recovery room	1.25
Library ^f	
In a reading area ^a	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-	1.28

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to-ceiling height)	
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

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2109 For SI: 1 foot = 304.8 mm, 1 watt per square foot = 11 W/m².

2110 Footnotes:

2111 a. If both a common space type and a building area specific space type are listed,
2112 the building area specific space type shall apply.

2113 b. A facility for the visually impaired is a facility that is licensed or will be
2114 licensed by local or state authorities for senior long-term care, adult daycare, senior
2115 support or people with special visual needs.

2116 c. For spaces in which lighting is specified to be installed in addition to, and
2117 controlled separately from, the general lighting for the purpose of highlighting art or
2118 exhibits if the additional lighting power shall not exceed 0.5 W/ft² of such spaces.

2119 d. For scientific laboratories, additional lighting power allowance of 0.35 W/ft²
2120 for specialized task work - lighting that provides for small-scale, cognitive or fast
2121 performance visual tasks, lighting required for operating specialized equipment
2122 associated with pharmaceutical or laboratorial activities or both.

2123 e. For offices, additional lighting power allowance of 0.20 W/ft² for portable
2124 lighting, which includes under shelf or furniture-mounted supplemental task lighting
2125 qualifies when controlled by a time clock or an occupancy sensor.

2126 f. For corridors, additional lighting power allowance of 0.25 W/ft² display
2127 lighting and decorative lighting where provided for aesthetic purposes. Decorative
2128 lighting fixtures in corridors may also provide general lighting. This additional
2129 allowance is not permitted to be used together with the allowance in footnote c for
2130 highlighting art or exhibits.

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2131 g. Where sleeping units are excluded from lighting power calculations by
2132 application of IECC R404.1, neither the area of the sleeping units nor the wattage of
2133 lighting in the sleeping units shall be counted.

2134 h. Where dwelling units are excluded from lighting power calculations by
2135 application of IECC R404.1, neither the area of the dwelling units nor the wattage of
2136 lighting in the dwelling units shall be counted.

2137 i. Class I facilities consist of professional facilities; and semiprofessional,
2138 collegiate or club facilities with seating for 5,000 or more spectators.

2139 j. Class II facilities consist of collegiate and semiprofessional facilities with
2140 seating for fewer than 5,000 spectators; club facilities with seating between 2,000 and
2141 5,000 spectators; and amateur league and high school facilities with seating for more than
2142 2,000 spectators.

2143 k. Class III facilities consist of club, amateur league and high school facilities
2144 with seating for 2,000 or fewer spectators.

2145 l. Class IV facilities consist of elementary school and recreational facilities; and
2146 amateur league and high school facilities without provisions for spectators.

2147 m. For classrooms, additional lighting power allowance of 4.50 W/lineal foot of
2148 white or chalk boards for directional lighting dedicated to white or chalk boards.

2149 n. Additional lighting power allowance of 0.30 W/ft² for ornamental lighting.
2150 Qualifying ornamental lighting includes luminaires such as chandeliers, sconces, lanterns,
2151 neon and cold cathode, light emitting diodes, theatrical projectors, moving lights and
2152 light color panels when any of those lights are used in a decorative manner that does not

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2153 serve as display lighting or general lighting. Ornamental lighting shall be controlled
2154 separately from general lighting.

2155 NEW SECTION. SECTION 101. There is hereby added to the chapter
2156 established in section 68 of this ordinance a new section to read as follows:

2157 Section C405.5.3 of the International Energy Conservation Code is supplemented
2158 with the following:

2159 **Exterior lighting power allowance – covered parking garages (IECC**
2160 **C405.5.3.2).** Covered parking garage lighting is not considered exterior lighting for the
2161 purposes of this calculation.

2162 NEW SECTION. SECTION 102. There is hereby added to the chapter
2163 established in section 68 of this ordinance a new section to read as follows:

2164 Section C405.7 of the International Energy Conservation Code is supplemented
2165 with the following:

2166 **Electric receptacles at dwelling unit gas appliances (C405.7.1).** Where
2167 dwelling unit appliances are served by natural gas, an electrical receptacle and circuit
2168 shall be provided at each gas appliance with sufficient capacity to serve a future electric
2169 appliance in the same location. The receptacle for each gas appliance shall be located
2170 within 12 inches of the appliance and without obstructions between the appliance and the
2171 outlet. The receptacles and circuits shall be included in the electrical service load
2172 calculation and shall meet the following requirements:

2173 1. Each gas range, cooktop or oven location shall be served by a dedicated
2174 240/208-voltage, 40-amperage receptacle connected to the dwelling unit electric panel

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2175 with a 3-conductor branch circuit and a minimum included load of 9,600 volt-amperes (VA)
2176 for 240-voltage systems or 8,000 VA for 208-voltage systems.

2177 2. Each gas clothes dryer location shall be served by a dedicated 240/208-
2178 voltage, 30-ampere receptacle connected to the dwelling unit electric panel with a 3-
2179 conductor branch circuit and a minimum included load of 5,000 volt-amperes (VA).

2180 3. Each gas domestic water heater location shall be served by a dedicated
2181 240/208 voltage, 30-ampere outlet connected to the dwelling unit electrical panel with
2182 a 3-conductor branch circuit and a minimum included load of 4,500 volt-amperes (VA).

2183 **EXCEPTION:** An electric receptacle is not required for a gas fireplace.

2184 NEW SECTION. SECTION 103. There is hereby added to the chapter
2185 established in section 68 of this ordinance a new section to read as follows:

2186 Section C406.1 of the International Energy Conservation Code is not adopted and
2187 the following is substituted:

2188 **Additional energy efficiency credit requirements (C406.1).** New buildings and
2189 changes in space conditioning, change of occupancy and building additions in accordance
2190 with IECC Chapter 5 shall comply with sufficient packages from IECC Table C406.1 so
2191 as to achieve a minimum number of 8 credits. Each area may apply for different
2192 packages if all areas in the building comply with the requirement for eight credits. Areas
2193 included in the same permit within mixed-use buildings may demonstrate compliance by
2194 an area weighted average number of credits by building occupancy achieving a minimum
2195 number of 8credits.

2196 **EXCEPTIONS:**

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2197 1. Low energy spaces in accordance with IECC C402.1.1.1 and equipment
 2198 buildings in accordance with IECC C402.1.2 shall comply with sufficient packages from
 2199 IECC Table C406.1 to achieve a minimum number of 4 credits.

2200 2. Building additions that have less than 1,000 square feet of conditioned floor
 2201 area shall comply with sufficient packages from IECC Table C406.1 to achieve a
 2202 minimum number of 4 credits.

2203 **TABLE C406.1**
 2204 **EFFICIENCY PACKAGE CREDITS**

Code Section	Commercial Building Occupancy					
	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	4.0	2.0 ^d	4.0	NA	NA	4.0

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accordance with IECC C406.6 ^b						
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

2205 Footnotes:

2206 a. Projects using this option may not use Item 2. of IECC Table C406.1.

2207 b. This option is not available to buildings subject to the prescriptive

2208 requirements of IECC C403.3.5 or C403.6.

2209 c. Buildings or building areas that are exempt from thermal envelope

2210 requirements in accordance with IECC C402.1.1 and C402.1.2 do not qualify for this

2211 package.

2212 d. 4.0 credits, instead of 2.0 credits, may be applied to areas of R-2 occupancy

2213 buildings other than dwelling units, including corridors, lobbies and tenant amenity

2214 spaces, where those areas comply with the requirements for this credit.

2215 e. Buildings, building additions, building area, occupancy type or tenant spaces

2216 with a service hot water load of 10 percent or more of total building energy loads, as

2217 demonstrated through an energy analysis complying with IECC C407, or a minimum

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2218 service water energy use of 15,000 Btu per square foot per year, as demonstrated through
2219 an alternate service hot water load calculation method approved by the code official, are
2220 permitted to apply this credit.

2221 f. In Group B occupancies, the high-performance service water heating credit
2222 applies only to research and production laboratory spaces, and adjacent circulation
2223 serving those laboratory spaces, but not to associated office or other space uses.

2224 NEW SECTION. SECTION 104. There is hereby added to the chapter
2225 established in section 68 of this ordinance a new section to read as follows:

2226 Section C406.1.1 of the International Energy Conservation Code is not adopted
2227 and the following is substituted:

2228 **Tenant spaces (IECC 406.1.1).** Initial tenant improvements shall comply with
2229 IECC C406.1.1.1, C406.1.1.2 and sufficient packages from IECC Table C406.1 to
2230 achieve a minimum number of 8 credits when the space is fully built out. In buildings
2231 with multiple tenant spaces, each tenant space may apply for different packages if all
2232 areas in the building comply with the requirement for eight credits when the space is fully
2233 built-out. This provision only applies to the initial build-out of a tenant space. For the
2234 purposes of this section, tenant space means any conditioned area within a new building
2235 that is constructed for first occupancy under a separate permit from the shell and core
2236 permits.

2237 NEW SECTION. SECTION 105. There is hereby added to the chapter
2238 established in section 68 of this ordinance a new section to read as follows:

2239 Section C406.2 of the International Energy Conservation Code is not adopted and
2240 the following is substituted:

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2241 **More efficient HVAC equipment and fan performance (C406.2).** No less than
2242 90 percent of the total HVAC capacity serving the total conditioned floor area of the
2243 entire building, building addition, building area, occupancy type or tenant space in
2244 accordance with IECC C406.1.1, shall comply with IECC C406.2.1 through C406.2.3. In
2245 addition, systems required to comply with IECC C403.1.1 shall exceed the HVAC TSPR
2246 of the standard reference design by 10 percent. This credit shall not be used for low
2247 energy or semi-heated space conditioning categories.

2248 NEW SECTION. SECTION 106. There is hereby added to the chapter
2249 established in section 68 of this ordinance a new section to read as follows:

2250 Section C406.2.1 of the International Energy Conservation Code is not adopted
2251 and the following is substituted:

2252 **HVAC system selection (IECC C406.2.1).** Equipment installed shall be types
2253 that are listed in IECC Tables C403.3.2(1) through C403.3.2(12) or a combination
2254 thereof. Electric resistance heating shall not meet this requirement. No HVAC systems
2255 incorporating fossil fuel-fired equipment, or heat from district energy systems that are
2256 primarily heated by fossil fuel combustion, shall use this credit.

2257 NEW SECTION. SECTION 107. There is hereby added to the chapter
2258 established in section 68 of this ordinance a new section to read as follows:

2259 Section C406.4 of the International Energy Conservation Code is not adopted and
2260 the following is substituted:

2261 **Enhanced digital lighting controls (IECC C406.4).** Not less than 90 percent of
2262 the total installed interior lighting power within the whole building, building addition or
2263 tenant space shall comply with IECC C406.4.1. Open office areas subject to IECC

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2264 C405.2(1) shall not take credit for this option. Lighting control functions shall comply
2265 with IECC C406.1, with control functions commissioned in accordance with IECC
2266 C408.1 and C408.3.

2267 NEW SECTION. SECTION 108. There is hereby added to the chapter
2268 established in section 68 of this ordinance a new section to read as follows:

2269 Section C406.5 of the International Energy Conservation Code is not adopted and
2270 the following is substituted:

2271 **On-site renewable energy (IECC C406.5).** In addition to the renewable energy
2272 required by IECC C412 and to renewable energy used to comply with any other
2273 requirement of this code, a whole building, building addition, building area or tenant
2274 space shall be provided with on-site renewable energy systems with a rated peak
2275 renewable energy generating capacity of no less than 0.25 watts (or 0.85 Btu/h) per
2276 square foot of conditioned floor area based on the total conditioned floor area of the
2277 whole building, building addition, building area or tenant space. The on-site renewable
2278 energy provided to comply with this option shall be separate from on-site renewable
2279 energy provided to comply with IECC C406.8 or other requirements of this code, or used
2280 to qualify for any exception in this code.

2281 NEW SECTION. SECTION 109. There is hereby added to the chapter
2282 established in section 68 of this ordinance a new section to read as follows:

2283 Section C406.6 of the International Energy Conservation Code is supplemented
2284 with the following:

2285 **Dedicated outdoor air system (DOAS) – No fossil fuel-fired HVAC may use**
2286 **this credit (IECC C406.6.1).** HVAC systems incorporating fossil fuel-fired equipment,

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2287 or heat from district energy systems that are primarily heated by fossil fuel combustion,
2288 shall not use this credit.

2289 NEW SECTION. SECTION 110. There is hereby added to the chapter
2290 established in section 68 of this ordinance a new section to read as follows:

2291 Section C406.7 of the International Energy Conservation Code is supplemented
2292 with the following:

2293 **High performance dedicated outdoor air system (DOAS) – No fossil fuel-**
2294 **fired HVAC may use this credit (IECC C406.7.1).** HVAC systems incorporating fossil
2295 fuel-fired equipment, or heat from district energy systems that are primarily heated by
2296 fossil fuel combustion, shall not use this credit.

2297 NEW SECTION. SECTION 111. There is hereby added to the chapter
2298 established in section 68 of this ordinance a new section to read as follows:

2299 Section C406.8 of the International Energy Conservation Code is not adopted, and
2300 the following is substituted:

2301 **Reduced energy use in service water heating (IECC C406.8).** Buildings with
2302 service hot water heating equipment that serves the whole building, building addition or
2303 tenant space shall comply with IECC C406.8.1 and C406.8.2. Service water heating
2304 systems incorporating fossil fuel-fired equipment, or heat from district energy systems
2305 that are primarily heated by fossil fuel combustion, shall not use this credit. On-site
2306 renewable energy water-heating systems proposed for this credit shall only qualify where
2307 those systems are in addition to the renewable energy required by IECC C412 and any
2308 renewable energy used to comply with other requirements of this code.

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2309 NEW SECTION. SECTION 112. There is hereby added to the chapter

2310 established in section 68 of this ordinance a new section to read as follows:

2311 Section C406.9 of the International Energy Conservation Code is not adopted, and
2312 the following is substituted:

2313 **High performance service water heating in hotel and multifamily buildings.**
2314 **(IECC C406.9).** For a whole building, building area, occupancy type, building addition
2315 or tenant space with not less than 90 percent of the conditioned floor area being Group R-
2316 1 or R-2 occupancy, not less than 90 percent of the annual building service hot water
2317 energy use shall be provided by a heat pump system meeting the requirements of IECC
2318 C404.2.3 and:

2319 1. The refrigerant used in the heat pump system shall have a global warming
2320 potential (GWP) no more than 675.

2321 2. Electric resistance heating capacity shall not be provided, except for:

2322 2.1. Circulating system temperature maintenance and heat tracing of service hot
2323 water supply and return piping; or

2324 2.2. On-demand electric resistance water heaters for hand washing facilities are
2325 allowed in public toilet rooms.

2326 NEW SECTION. SECTION 113. There is hereby added to the chapter

2327 established in section 68 of this ordinance a new section to read as follows:

2328 Section C406.10 of the International Energy Conservation Code is not adopted,
2329 and the following is substituted:

2330 **Enhanced envelope performance. (IECC C406.10).** The Proposed Total UA of
2331 the thermal envelope of the whole building, building area, occupancy type or building

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2332 addition shall be 15 percent lower than the Allowable Total UA for an area of identical
2333 configuration and fenestration area in accordance with IECC C402.1.5 and Equation 4-2.

2334 NEW SECTION. SECTION 114. There is hereby added to the chapter
2335 established in section 68 of this ordinance a new section to read as follows:

2336 Section C406.12 of the International Energy Conservation Code is not adopted.

2337 NEW SECTION. SECTION 115. There is hereby added to the chapter
2338 established in section 68 of this ordinance a new section to read as follows:

2339 Section C407.3 of the International Energy Conservation Code is not adopted and
2340 the following is substituted:

2341 **Performance-based compliance (IECC C407.3).** Compliance with this section
2342 requires compliance with ASHRAE Standard 90.1 Appendix G, Performance Rating
2343 Method, in accordance with ASHRAE Standard 90.1 Section 4.2.1 with the following
2344 modifications:

2345 1. The mandatory requirements of ASHRAE Standard 90.1 Section G1.2.1a are
2346 not required to be met.

2347 2. The reduction in annual carbon emissions of the proposed building design
2348 associated with on-site renewable energy shall not be more than 3 percent of the total
2349 carbon emissions of the baseline building design. This limitation only applies to on-site
2350 renewable energy provided in excess of the renewable energy required by IECC C412.

2351 2.1. The equation $PCI + [(PBP_{nre} - PBP)/BBP] - 0.05 < PCI$ in ASHRAE 90.1
2352 Section 4.2.1.1 shall be modified to read $PCI + [(PBP_{nre} - PBP)/BBP] - 0.03 < PCI$.

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2353 2.2. "PBPnre" means the proposed building performance without credit for
2354 reduced annual energy emissions from on-site renewable energy generation system
2355 capacity in excess of that installed to satisfy the requirements of IECC C412.

2356 3. References to energy cost in ASHRAE Standard 90.1 Section 4.2.1.1 and
2357 ASHRAE Standard 90.1 Appendix G shall be replaced by carbon emissions calculated by
2358 multiplying site energy consumption by the carbon emission factor from IECC Table
2359 C407.3(1).

2360 4. The building performance factors in ASHRAE Standard 90.1 Table C4.2.1.1
2361 shall be replaced with those in IECC Table C407.3(2).

2362 5. Schedules and plug and process loads shall be modeled using the default
2363 values listed in IECC Appendix B or in the ASHRAE Standard 90.1 User's Manual and
2364 shall be assumed to be identical in the proposed design and baseline building design.

2365 **EXCEPTION:** Alternative schedules and plug and process loads shall be
2366 permitted where approved by the code official.

2367 6. ASHRAE Standard 90.1 Section G1.3.2.d documentation requirements shall
2368 be replaced by a list showing compliance with the mandatory provisions of IECC Table
2369 C407.2.

2370 7. ASHRAE Standard 90.1 Section G1.3.2.e documentation requirements shall be
2371 replaced by a list of proposed design aspects that are less stringent than the prescriptive
2372 requirements of the IECC.

2373 8. References to undesigned future building components in the Proposed
2374 Building Performance column of ASHRAE Standard 90.1 Table G3.1 shall be modified

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2375 to reference the corresponding IECC sections in lieu of ASHRAE Standard 90.1

2376 requirements, in the following ASHRAE Standard 90.1 table sections:

2377 8.1. Table G3.1.1.c.

2378 8.2. Table G3.1.6.c.

2379 8.3. Table G3.1.11.c.

2380 8.4. Table G3.1.12.b.

2381 9. HVAC systems, subclauses c and d of ASHRAE Standard 90.1 Table G3.1,

2382 shall meet the following requirements:

2383 9.1. For yet-to-be-designed systems in office, retail, library, education and

2384 multifamily buildings and occupancies subject to the TSPR requirements of IECC

2385 C403.1.1, the system type and efficiency parameters shall meet but not exceed those

2386 shown in IECC Appendix D, Table D602.11 Standard Reference Design HVAC Systems.

2387 9.2. For all other buildings and occupancies, the system type shall be the same

2388 as the system modeled in the baseline design and shall comply with, but not exceed,

2389 IECC C403 requirements in lieu of ASHRAE Standard 90.1.

2390 9.3. For HVAC systems serving future tenant spaces, where the current building

2391 permit applies to only a portion of an HVAC system, and future components will receive

2392 HVAC services from systems included in the current building permit, those future

2393 components shall be modeled as the type required to complete the HVAC system

2394 portions under the current permit and shall meet, but not exceed, IECC C403

2395 requirements.

2396 NEW SECTION. SECTION 116. There is hereby added to the chapter

2397 established in section 68 of this ordinance a new section to read as follows:

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2398 Section C407.3.1 of the International Energy Conservation Code is not adopted
 2399 and the following is substituted:

2400 **Limits on substandard building envelopes (IECC C407.3.1).** The Proposed
 2401 Total UA of the proposed building shall be no more than 10 percent higher than the
 2402 Allowed Total UA as defined in IECC C402.1.5. Where either IECC C402.4.1.1.1 or
 2403 C402.4.1.1.2 is used to establish the maximum allowable fenestration area for
 2404 compliance with this section, all of the requirements of the selected section shall be met.

2405 NEW SECTION. SECTION 117. There is hereby added to the chapter
 2406 established in section 68 of this ordinance a new section to read as follows:

2407 Table C407.3(2) of the International Energy Conservation Code is not adopted
 2408 and the following is substituted:

2409 **Table C407.3(2)**

2410 **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

2411 NEW SECTION. SECTION 118. There is hereby added to the chapter
 2412 established in section 68 of this ordinance a new section to read as follows:

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2413 Section C411.1 of the International Energy Conservation Code is not adopted and
2414 the following is substituted:

2415 **Solar readiness – general (IECC C411.1).** In addition to the requirements of
2416 IECC C412, a solar zone shall be provided on buildings that are 20 stories or less in
2417 height above grade plane. The solar zone shall be located on the roof of the building or
2418 on another structure elsewhere on the site. The solar zone shall be in accordance with
2419 IECC C411.2 through C411.8 and the International Fire Code.

2420 **EXCEPTION:** A solar zone is not required where the solar exposure of the
2421 building's roof area is less than 75 percent of that of an unshaded area, as defined in
2422 IECC C411.5, in the same location, as measured by the following:

- 2423 1. Incident solar radiation expressed in kWh/ft²-yr using typical meteorological
2424 year (TMY) data;
- 2425 2. Annual sunlight exposure expressed in cumulative hours per year using typical
2426 meteorological year (TMY) data; or
- 2427 3. Shadow studies indicating that the roof area is more than 25 percent in
2428 shadow, on September 21 at 10 a.m., 11 a.m., 12 p.m., 1 p.m. and 2 p.m. solar time.

2429 NEW SECTION. SECTION 119. There is hereby added to the chapter
2430 established in section 68 of this ordinance a new section to read as follows:

2431 Section C411.2 of the International Energy Conservation Code is supplemented
2432 with the following:

2433 **Minimum area – mechanical equipment (C411.2.1).** When calculating the
2434 minimum area of the solar zone as a percentage roof area, areas that will be occupied by
2435 mechanical equipment shall be subtracted from the horizontally-projected gross roof area.

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2436 NEW SECTION. SECTION 120. There is hereby added to the chapter
2437 established in section 68 of this ordinance a new section to read as follows:

2438 Section C411.8 of the International Energy Conservation Code is supplemented
2439 with the following:

2440 **Photovoltaic interconnection – roof penetration (IECC C411.8.1).** A
2441 minimum 2-inch diameter roof penetration sleeve shall be provided, with threaded caps
2442 above and below the roof deck and minimum R-10 insulation wrapping the lower portion,
2443 within each 2,500 square foot section of the required solar zone area.

2444 NEW SECTION. SECTION 121. There is hereby added to the chapter
2445 established in section 68 of this ordinance a new section to read as follows:

2446 Chapter 4 of the International Energy Conservation Code is supplemented with
2447 the following:

2448 **On-site renewable energy generation systems (IECC C412.1).** Any new
2449 building and any addition larger than 5,000 square feet of gross conditioned floor area
2450 shall include on-site a renewable energy generation system consisting of not less than
2451 0.25 watts rated peak photovoltaic energy production per square foot of conditioned
2452 space.

2453 **EXCEPTIONS:**

2454 1. Increased additional energy credits. Where 3.0 additional energy credits from
2455 IECC Table C406.1 are provided in addition to those required by other sections of this
2456 code, the on-site renewable energy generation system is not required.

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2457 1.1. Where 1.0 additional energy credits is provided in addition to those
2458 required by other sections of this code, applicants may reduce the size of the on-site
2459 renewable energy generation system by 1/3.

2460 1.2. Where 2.0 additional energy credits are provided in addition to those
2461 required by other sections of this code, applicants may reduce the size of the on-site
2462 renewable energy generation system by 2/3.

2463 1.3 Where approved by the building code official, interpolation between
2464 exceptions 1, 1.1 and 1.2 is permitted.

2465 2. Reduced building performance factor. For projects utilizing the IECC C407
2466 Total Building Performance compliance path, the on-site renewable energy generation
2467 system is not required where the building performance factor (BPF) is at least than 3
2468 percent lower than the maximum building performance factor (BPF) permitted
2469 cumulatively by all other sections of the IECC.

2470 2.1. Where the building performance factor (BPF) is not less than 1 percent
2471 lower than the building performance factor (BPF) required cumulatively by other sections
2472 of the IECC, the size of the on-site renewable energy generation system may be reduced
2473 by 1/3.

2474 2.2. Where the building performance factor (BPF) is not less than 2 percent
2475 lower than the building performance factor (BPF) required cumulatively by other sections
2476 of the IECC, the size of the on-site renewable energy generation system may be reduced
2477 by 2/3.

2478 3. Transfer to an affordable housing project. The department may waive all or
2479 part of the required on-site renewable energy generation system if the applicant

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2480 constructs a renewable energy generation system on an affordable housing project in
2481 unincorporated King County.

2482 3.1. The size of the system built on the affordable housing project shall be:

2483 3.1.1. 50 percent of the size of the system not being built on site if located on
2484 an existing affordable housing project; or

2485 3.1.2. 75 percent of the size of the system not being built on site if located on a
2486 new construction affordable housing project.

2487 3.2. Documentation demonstrating that the renewable energy generation system
2488 has been installed on the affordable housing project site, the system is fully operational,
2489 and ownership has been transferred to the owner of the affordable housing project, shall
2490 be submitted before issuance of the certificate of occupancy.

2491 3.3. Such a transfer shall only be available if an affordable housing project is
2492 available to accept the renewable energy system. There is no assurance that such a project
2493 location will be available. It is the applicant's responsibility to locate and coordinate with
2494 the affordable housing project, and to ensure installation is completed in a timely manner.

2495 4. Transfer to a Washington state agency program. Where approved by the
2496 department, all or part of the required renewable energy generation system may be
2497 replaced by a contribution of \$2.50 for each required watt of installed capacity to a solar
2498 energy fund managed by a Washington state agency that will provide solar energy
2499 installations for affordable housing projects. Documentation demonstrating that the
2500 contribution has been received by the state agency shall be submitted before issuance of
2501 the certificate of occupancy.

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2502 4.1. Such a transfer shall only be available if a solar energy fund for affordable
2503 housing is created by the Housing Trust Fund, Washington state Housing Finance
2504 Commission, or another state agency program for which the project is qualified to
2505 participate. There is no assurance that such a program will be available.

2506 5. The building official may approve an alternative method to meet this
2507 requirement if the applicant's engineer or architect can demonstrate, to the satisfaction of
2508 the building official, that the alternative method will provide equal or greater solar
2509 performance as required by this section.

2510 6. Affordable housing. The on-site renewable energy generation system is not
2511 required for affordable housing projects.

2512 NEW SECTION. SECTION 122. There is hereby added to the chapter
2513 established in section 68 of this ordinance a new section to read as follows:

2514 Section 503.4 of the International Energy Conservation Code is supplemented
2515 with the following:

2516 **New and replacement HVAC heating system equipment (IECC C503.4.6).**

2517 For a substantial improvement as defined in K.C.C. chapter 21A.06, or where a building's
2518 central HVAC heating system equipment is augmented or replaced, the building shall
2519 comply with IECC C403.1.4. For the purposes of this section, central HVAC heating
2520 system means a heating system that provides heating to multiple spaces or multiple
2521 dwelling or sleeping units, as opposed to a distributed heating system such as baseboard
2522 heating or a Packaged Terminal Heat Pump (PTHP) that provides heating to only a single
2523 space. A central heating system may include multiple pieces of heating equipment.

2524 **EXCEPTION:** HVAC replacements:

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2525 1. Where only one heating appliance is failing and is replaced by another having
2526 the same or lesser heating capacity and the same or higher efficiency;

2527 2. No other alterations are made to the central HVAC system; and

2528 3. Where this exception has not been used within the same building in the
2529 previous two year period.

2530 NEW SECTION. SECTION 123. There is hereby added to the chapter
2531 established in section 68 of this ordinance a new section to read as follows:

2532 Section 505.1 of the International Energy Conservation Code is supplemented
2533 with the following:

2534 **Change of occupancy or Use – General – energy star equipment (IECC**
2535 **505.1.1).** Where the building or space is altered to become a bakery, commercial kitchen
2536 or commercial laundry, and the proposed design uses only all-electric Energy Star-rated
2537 process equipment and code compliant all-electric HVAC equipment, improvements to
2538 the building envelope immediately adjoining the spaces containing that use shall not be
2539 required. For the purposes of this exception, fossil fuel-combusting equipment shall not
2540 be used or installed within the building or space undergoing the change of occupancy.

2541 SECTION 124. Ordinance 8766, Section 6, as amended, and K.C.C. 16.08.050
2542 are hereby amended to read as follows:

2543 Approved numbers or addresses shall be provided for all new and existing
2544 buildings in such a position as to be plainly visible and legible from the road fronting the
2545 property and in conformance with this section.

2546 A. The owner, occupant((;)) or renter of any addressed building or other structure
2547 shall maintain the address numbers in a conspicuous place over or near the principal

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2548 entrance or entrances. If ~~((said))~~ the entrance~~((s))~~ cannot be easily seen from the nearest
 2549 adjoining ~~((street))~~ road, the address numbers shall be placed in such other conspicuous
 2550 place on ~~((said))~~ the building or structure as is necessary for visually locating such address
 2551 numbers from the nearest adjoining ~~((street))~~ road.

2552 B. If the addressed building or structure cannot be easily seen ~~((or is greater than~~
 2553 ~~50 feet))~~ from the nearest adjoining ~~((street))~~ road, the address numbers shall be placed on a
 2554 portion of the site that is clearly visible ~~((and no greater than 20 feet))~~ from the ~~((street))~~
 2555 road.

2556 C. The address numbers shall:

- 2557 1. ~~((b))~~ Be easily legible figures~~((s))~~;
- 2558 2. Comply with the following size requirements, unless otherwise stipulated in
 2559 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>

2560 3. Be not ~~((less than three inches high if a residential use or individual multi-~~
 2561 ~~family unit, nor))~~ less than five inches high ~~((if))~~ for a commercial use~~((-- Numbers shall))~~;

2562 4. ~~((e))~~ Contrast with the color of the structure upon which they are placed~~((s))~~;

2563 and

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2564 5. ~~((shall e))~~ Either be illuminated during periods of darkness((;)) or be reflective,
2565 so they are easily seen at night.

2566 SECTION 125. Ordinance 12560, Section 110, as amended, and K.C.C.
2567 16.14.110 are hereby amended to read as follows:

2568 Section ~~((106.2))~~ 107 of the International Property Maintenance Code is
2569 supplemented with the following:

2570 ~~((Substandard buildings))~~ **Notices and Orders (IPMC ~~((106.2))~~ 107)**. All
2571 buildings, portions thereof or premises which are determined by the code official not to
2572 be in compliance with this Code are hereby declared to be a public nuisance and shall be
2573 abated by repair, rehabilitation, demolition((;)) or removal in accordance with the
2574 procedures specified in K.C.C. Title 23.

2575 SECTION 126. Ordinance 14914, Section 359, and K.C.C. 16.14.200 are hereby
2576 amended to read as follows:

2577 Section 108.2 of the International Property Maintenance Code is not adopted and
2578 the following is substituted:

2579 **Closing of vacant structures (IPMC 108.2)**. If the structure is vacant and unfit
2580 for human habitation and occupancy, and is not in danger of structural collapse, the code
2581 official is authorized to post a placard of condemnation on the premises and order the
2582 structure closed up so as not to be an attractive nuisance. Upon failure of the owner or
2583 the owner's agent to close up the premises within the time specified enforcement action
2584 may be taken using the procedures of K.C.C. Title 23.

2585 SECTION 127. Ordinance 14914, Section 367, and K.C.C. 16.14.250 are hereby
2586 amended to read as follows:

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2587 Section 109.1 of the International Property Maintenance Code is not adopted and
 2588 the following is substituted:

2589 **Imminent danger (IPMC 109.1).** ~~((When, in the opinion of the code official,~~
 2590 ~~there is imminent danger of failure or collapse of a building or structure which endangers~~
 2591 ~~life, or when any structure or part of a structure has fallen and life is endangered by the~~
 2592 ~~occupation of the structure, or when there is actual or potential danger to the building~~
 2593 ~~occupants or those in the proximity of any structure because of explosives, explosive~~
 2594 ~~fumes or vapors or the presence of toxic fumes, gases or materials, or operation of~~
 2595 ~~defective or dangerous equipment, t))~~The code official is hereby authorized and
 2596 empowered to order and require the occupants to vacate the premises of a building or
 2597 structure ((forthwith)) immediately when, in the opinion of the code official:

2598 1. there is imminent danger of failure or collapse of a building or structure which
 2599 endangers life;

2600 2. any structure or part of a structure has fallen and life is endangered by the
 2601 occupation of the structure; or

2602 3. there is actual or potential danger to the building occupants or those in the
 2603 proximity of any structure because of:

2604 3.1. explosives, explosive fumes or vapors;

2605 3.2. the presence of toxic fumes, gases or materials; or

2606 3.3. operation of defective or dangerous equipment.

2607 The code official shall ~~((cause to be posted))~~ post at each entrance to such
 2608 structure or premises a notice as provided in ~~((Section))~~ IPMC108.4. ~~((It shall be~~
 2609 ~~unlawful for any))~~ No person ~~((to))~~ shall enter such structure except for the purpose of

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2610 securing the structure or premises, making the required repairs, removing the hazardous
2611 condition or of demolishing the same.

2612 SECTION 128. Ordinance 12560, Section 124, as amended, and K.C.C.
2613 16.14.410 are hereby amended to read as follows:

2614 Section ~~((410.1))~~ 110 of the International Property Maintenance Code is not
2615 adopted and is substituted with the following:

2616 **General (IPMC ~~((410.1))~~ 110).** Demolition shall be in accordance with K.C.C.
2617 Title 23.

2618 SECTION 129. Ordinance 12560, Section 121, as amended, and K.C.C.
2619 16.14.430 are hereby amended to read as follows:

2620 Section ~~((411.1))~~ 111 of the International Property Maintenance Code is not
2621 adopted and is substituted with the following:

2622 ~~((Application for))~~ **Means of appeal (IPMC ~~((411.1))~~ 111).** Appeals shall be in
2623 accordance with K.C.C. Titles 20 and 23.

2624 NEW SECTION. SECTION 130. There is hereby added to K.C.C. chapter 16.14
2625 a new section to read as follows:

2626 Section 112 of the International Property Maintenance Code is not adopted and
2627 the following is substituted:

2628 **Stop work order (IPMC 112).** Stop work orders shall be in accordance with
2629 K.C.C. Title 23.

2630 SECTION 131. Ordinance 14111, Section 141, and K.C.C. 16.14.460 are hereby
2631 amended to read as follows:

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2632 Section ~~((302.4))~~ 302 of the International Property Maintenance Code is ~~((not~~
2633 ~~adopted and the following is substituted))~~ supplemented with the following:

2634 **Fire hazard (IPMC ~~((302.4))~~ 302.10).** Any building or portion thereof, device,
2635 apparatus, equipment, combustible waste, or vegetation that, in the opinion of the Fire
2636 Marshal or the Code Official, is in such a condition as to cause a fire or explosion or
2637 provide a ready fuel to augment the spread and intensity of fire or explosion arising from
2638 any cause shall be considered substandard. Upon failure of the owner or agent having
2639 charge of a property to cut and destroy weeds after service of a notice violation, they
2640 shall be subject to prosecution in accordance with the provisions of K.C.C. Title 23.

2641 SECTION 132. Ordinance 14914, Section 407, and K.C.C. 16.14.480 are hereby
2642 amended to read as follows:

2643 Section 303.2 of the International Property Maintenance Code is not adopted and
2644 the following is substituted:

2645 **Enclosures (IPMC 303.2).** ~~((Private swimming pools, hot tubs and spas,~~
2646 ~~containing water more than twenty-four inches (610 mm) in depth shall be completely~~
2647 ~~surrounded by a fence or barrier at least sixty inches (1,524 mm) in height above the~~
2648 ~~finished ground level measured on the side of the barrier away from the pool. Gates and~~
2649 ~~doors in such areas shall be self-closing and self-latching. Where the self-latching~~
2650 ~~devices is less than fifty-four inches (1,372 mm) above the bottom of the gate, the release~~
2651 ~~mechanism shall be located on the pool side of the gate. Self-closing and self-latching~~
2652 ~~gates shall be maintained such that the gate will positively close and latch when released~~
2653 ~~from an open position of six inches (152 mm) from the gatepost. No existing g pool~~
2654 ~~enclosure shall be removed, replaced or changed in a manner that reduces its~~

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2655 ~~effectiveness as a safety barrier.))~~ Swimming pool enclosures shall comply with the
2656 International Building Code Section 3109.

2657 SECTION 133. Ordinance 14914, Section 408, and K.C.C. 16.14.490 are hereby
2658 amended to read as follows:

2659 Section 304.3 of the International Property Maintenance Code is not adopted and
2660 the following is substituted:

2661 **Premises identification. (IPMC 304.3).** Approved numbers or addresses shall
2662 be provided for all new buildings in such a position as to be plainly visible and legible
2663 from the ~~((street or))~~ road fronting the property ~~((as specified by the department))~~ as
2664 required by K.C.C. 16.08.050.

2665 SECTION 134. Ordinance 6746, Section 5, as amended, and K.C.C. 16.32.030
2666 are hereby amended to read as follows:

2667 A. Chapters 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, ~~((14))~~ 15, ~~16~~~~((7))~~ and 17 and
2668 ~~((Appendix))~~ Appendices A (Recommended Rules for Sizing the Water Supply System),
2669 B (Explanatory Notes on Combination Waste and Vent Systems), ~~((and))~~ I (Installation
2670 Standard for PEX Tubing Systems for Hot- and Cold-Water Distribution) and M (Peak
2671 Water Demand Calculator) of the Uniform Plumbing Code, ~~((2012))~~ 2018 Edition, as

2672 published by or jointly with the International Association of Plumbing and Mechanical
2673 Officials and as amended in chapter 51-56 WAC~~((7))~~ and the gas piping provisions of the
2674 International Fuel Gas Code, ~~((2012))~~ 2018 Edition, the National Fuel Gas Code,
2675 ~~((2012))~~ 2018 Edition ~~((2012))~~ 2018 ANSI Z223.1/NFPA 54), the Liquefied Petroleum
2676 Gas Code, ~~((2011))~~ 2017 Edition ~~((2011))~~ 2017 NFPA 58) as amended in chapter 51-52
2677 WAC~~((7))~~ and International Residential Code, ~~((2012))~~ 2018 Edition, as amended in

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2678 chapter 51-51 WAC, are hereby adopted and together with King County amendments,
2679 additions, exceptions and deletions adopted in this chapter are adopted as the King
2680 County Plumbing Code and may be cited as such and referred to in this chapter as "this
2681 code." This code shall have precedence over documents adopted by reference.

2682 B. This code also may be further clarified and implemented by administrative
2683 rules adopted in accordance with K.C.C. chapter 2.98.

2684 NEW SECTION. SECTION 135. There is hereby added to K.C.C. chapter 16.32
2685 a new section to read as follows:

2686 Section 102.1 of the Uniform Plumbing Code is not adopted and the following is
2687 substituted:

2688 **Conflicts between codes (UPC 102.1).** In instances where this code, applicable
2689 standards or the manufacturer's installation instructions conflict, the more stringent
2690 provisions shall prevail. Where there is a conflict between a general requirement and a
2691 specific requirement, the specific requirement shall prevail.

2692 NEW SECTION. SECTION 136. There is hereby added to K.C.C. chapter 16.32
2693 a new section to read as follows:

2694 Section 104.3.2 of the Uniform Plumbing Code is not adopted and the following
2695 is substituted:

2696 **Plan Review Fees (UPC 104.3.2).** Where a plan or other data is required to be
2697 submitted in accordance with UPC 104.3.1, a plan review fee shall be charged at a rate
2698 equal to the cost of performing the service in addition to the permit fees specified in
2699 K.C.C. 16.32.080.

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2700 SECTION 137. Ordinance 6746, Section 10, as amended, and K.C.C. 16.32.080

2701 are hereby amended to read as follows:

2702 Section 104.5 of the Uniform Plumbing Code is not adopted and the following is
2703 substituted:

2704 ~~((A.))~~ Fees (UPC 104.5). An applicant for a permit to do work under this code
2705 shall pay for each plumbing permit and for each gas piping permit, at the time of
2706 issuance, a fee in accordance with the following schedule, and at the rate provided for
2707 each permit classification shown in the schedule:

2708 **SCHEDULE OF FEES**

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:

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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 ten outlets plus \$10.00 for each additional outlet</u>

2709 ((B-)) For the purpose of this section((τ));

2710 1. "fixture" means an appliance that is connected with water, drain or vent pipe,

2711 but a sillcock faucet or hose bibb is not considered a fixture. A sanitary plumbing outlet

2712 on or to which a plumbing fixture or appliance may be set or attached is a fixture; and

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2713 2. "outlet" means the point at which a fuel-gas appliance connects to the gas
2714 pipng system, or a medical gas or medical vacuum connection is installed.

2715 SECTION 138. Ordinance 15802, Section 122, and K.C.C. 16.32.195 are hereby
2716 amended to read as follows:

2717 Section ~~((402.1))~~ 103.1 of the Uniform Plumbing Code ~~((not adopted and the~~
2718 ~~following is substituted))~~ is supplemented with the following:

2719 **Authority Having Jurisdiction (UPC ~~((402.1))~~ 103.1.1).** The authority having
2720 jurisdiction is the director of ~~((the Seattle King County department of))~~ public health -
2721 Seattle & King County or the director's authorized representative, who shall administer
2722 and enforce the provisions of this code~~((:)),~~ render interpretations of this code and make
2723 and enforce such rules and regulations, in accordance with K.C.C. chapters 2.98 and
2724 2.100.

2725 SECTION 139. Ordinance 15802, Section 123, and K.C.C. 16.32.205 are hereby
2726 amended to read as follows:

2727 Section ~~((402.2.2))~~ 103.4 of the Uniform Plumbing Code is not adopted and the
2728 following is substituted:

2729 **Right of Entry (UPC ~~((402.2.2))~~ 103.4).** Upon presentation of proper
2730 credentials, the authority having jurisdiction may, with the consent of the occupant or
2731 with the consent of the owner of an unoccupied building or premises, or in accordance
2732 with a lawfully issued search warrant, enter at reasonable times a building or premises to
2733 perform a duty imposed upon the authority having jurisdiction by this code~~((, provided~~
2734 ~~that t)).~~ The authority having jurisdiction shall make entry only if such entry is consistent
2735 with the constitutions and laws of the United States and the state of Washington.

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2736 SECTION 140. Ordinance 15802, Section 124, as amended, and K.C.C.

2737 16.32.215 are hereby amended to read as follows:

2738 Section ~~((402.2.3))~~ 106.4 of the Uniform Plumbing Code is not adopted and the
2739 following is substituted:

2740 **Stop Work Order and Correction Order (UPC ~~((402.2.3))~~ 106.4).**

2741 A. Whenever any work is being done contrary to the provisions of this code, the
2742 authority having jurisdiction may order the work stopped by notice in writing served on
2743 any persons engaged in the doing or causing such work to be done, and any such persons
2744 shall ~~((forthwith))~~ immediately stop work until authorized by the authority having
2745 jurisdiction to proceed with the work. Service of a stop work order shall be made by one
2746 or more of the following methods:

2747 Personal service: Personal service of a stop work order may be made on the
2748 property owner ~~((and/))~~ or on any person doing or causing the work to be done, or by
2749 leaving the stop work order at the house of usual abode of the person being served ~~((,~~
2750 ~~provided that))~~ if the stop work order is left with a person of suitable age and discretion
2751 who resides there.

2752 Service by posting on the property: Service directed to the property owner
2753 ~~((and/))~~ or person engaged in doing or causing such work to be done may be made by
2754 posting the stop work order in a conspicuous place on the property where the work is
2755 occurring, and concurrently mailing notice as ~~((provided for below))~~ required by this
2756 subsection, if a mailing address is available.

2757 Service by mail: Service by mail may be made for a stop work order by mailing
2758 two copies, postage prepaid, one by ordinary first class mail and the other by certified

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2759 mail, to the property owner and to any person engaged in doing or causing such work to
2760 be done, at their last known addresses, at the address of the location of the work being
2761 done, or at the address of the place of business of the person being served. The taxpayer's
2762 address as shown on the tax records of the county shall be deemed to be the proper
2763 address for the purpose of mailing such notice to the person being served. Service by
2764 mail shall be presumed effective upon the third business day following the day upon
2765 which the stop work order was placed in the mail.

2766 B. Whenever any work is being done contrary to the provisions of this code, the
2767 authority having jurisdiction may order the violations corrected without ordering all work
2768 stopped by issuing a correction notice that identifies the violation. The correction notice
2769 may require an inspection before further construction or at the time of the next required
2770 inspection. The correction notice shall be served or posted in the same manner as a stop
2771 work order.

2772 C. The remedies (~~(set forth)~~) in this section are in addition to those authorized
2773 elsewhere in this code.

2774 SECTION 141. Ordinance 15802, Section 126, and K.C.C. 16.32.235 are hereby
2775 amended to read as follows:

2776 Section (~~(402.2.6)~~) 103.2 of the Uniform Plumbing Code is not adopted and the
2777 following is substituted:

2778 **Liability (~~(Claims)~~) (UPC (~~(402.2.6)~~) 103.2).** This code is enacted as an exercise
2779 of the police power of King County to protect and preserve the public peace, health,
2780 safety and welfare, and its provisions shall be liberally construed for the accomplishment
2781 of these purposes. It is expressly the purpose of this code to provide for and promote the

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2782 health, safety and welfare of the general public, and not to create or otherwise establish or
2783 designate any particular class or group of persons who ~~((will))~~ would or should be
2784 especially protected or benefited by the terms of this code.

2785 It is the specific intent of this code to place the obligation of complying with its
2786 requirements upon the owner or occupier of premises within this code's scope, and no
2787 provision nor term used in this code is intended to impose any duty ~~((whatsoever))~~ upon
2788 the authority having jurisdiction or any of the authority having jurisdiction's officers or
2789 employees, for whom the implementation or enforcement of this code shall be
2790 discretionary and not mandatory.

2791 Nothing in this code creates or forms the basis for any liability on the part of the
2792 authority having jurisdiction, or the authority having jurisdiction's officers, employees or
2793 agents, for any injury or damage resulting from the failure of the owner or occupier of
2794 premises to comply with the provisions of this code, or by reason or in consequence of
2795 any act or omission in connection with the implementation or enforcement of this code on
2796 the part of the authority having jurisdiction or by the authority having jurisdiction's
2797 officers, employees or agents.

2798 Any claim or litigation arising from any conduct, acts or omissions of the
2799 authority having jurisdiction, or any of the authority having jurisdiction's officers,
2800 employees or agents, shall be subject to the provisions of K.C.C. chapter~~((s 4.12 and~~
2801 ~~4.13))~~ 2.21.

2802 SECTION 142. Ordinance 15802, Section 128, and K.C.C. 16.32.255 are hereby
2803 amended to read as follows:

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2804 Section (~~(402.3.2)~~) 106.3 of the Uniform Plumbing Code is not adopted and the
2805 following is substituted:

2806 **Penalties (UPC (~~(402.3.2)~~) 106.3).** Any person, firm, corporation or other entity
2807 violating any provision of this code shall be deemed guilty of a misdemeanor, and upon
2808 conviction thereof, shall be punishable by a fine (~~(and)~~) or imprisonment, or both, in
2809 accordance with K.C.C. Title 23 or state law. Each separate day or any portion thereof,
2810 during which any violation of this code occurs or continues, shall be deemed to constitute
2811 a separate offense.

2812 SECTION 143. Ordinance 15802, Section 130, and K.C.C. 16.32.275 are hereby
2813 amended to read as follows:

2814 Section (~~(403.1.3)~~) 103.3.1 of the Uniform Plumbing Code is not adopted and the
2815 following is substituted:

2816 **(~~(403.1.3)~~) Certification and Registration (UPC (~~(403.1.3)~~) 103.3.1).** It shall
2817 be the obligation of (~~(every)~~) a person who enters into contracts for the installation or
2818 repair of plumbing systems for which this code requires a permit, to comply with all
2819 applicable state or local rules and regulations concerning plumber certification and
2820 contractor registration.

2821 SECTION 144. Ordinance 15802, Section 131, as amended, and K.C.C.
2822 16.32.285 are hereby amended to read as follows:

2823 Section (~~(403.3.3)~~) 104.4.2 of the Uniform Plumbing Code is not adopted and the
2824 following is substituted:

2825 **Validity of Permit (UPC (~~(403.3.3)~~) 104.4.2).** The issuance of a permit or
2826 approval of plans and specifications shall not be construed to be a permit for, or an

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2827 approval of, any violation of any of the provisions of this code or of any other ordinance
2828 of the jurisdiction. No permit presuming to give authority to violate or cancel the
2829 provisions of this code shall be valid.

2830 The issuance of a permit based upon plans, specifications or other data shall not
2831 prevent the authority having jurisdiction from thereafter requiring the correction of errors
2832 contained in ~~((said))~~ the plans, specifications and other data or from preventing building
2833 operations being carried on thereunder when in violation of this code or of other
2834 ordinances of this jurisdiction.

2835 Every plumbing permit shall be kept on the site where the work permitted is being
2836 performed and shall not be removed until the work has been finally approved by the
2837 authority having jurisdiction.

2838 ~~((Every permit issued by the authority having jurisdiction under the provisions of
2839 this code shall expire by limitation and become null and void one year from date of issue.
2840 Permits expired for not more than one year may be renewed one time only for one half
2841 the original cost or fifty dollars (\$50), whichever is less. Any person seeking renewal of
2842 a permit expired for more than one year shall pay the full amount of the original permit
2843 cost in accordance with the fee schedule.))~~

2844 Plumbing work authorized by a permit in effect on or after ~~((July 1, 2013))~~ the
2845 effective date of this ordinance, shall be performed in accordance with the laws and
2846 ordinances in effect when the permit was issued, except when:

2847 1. ~~((§))~~The authority having jurisdiction determines such work to be in fact
2848 dangerous, unsafe, insanitary~~((;))~~ or a nuisance or a menace to life, health or property; or

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2849 2. A building permit has been approved before the effective date of this
2850 ordinance.

2851 NEW SECTION. SECTION 145. There is hereby added to K.C.C. chapter 16.32
2852 a new section to read as follows:

2853 Section 104.4.3 of the Uniform Plumbing Code is not adopted and the following
2854 is substituted:

2855 **Expiration (UPC 104.4.3).** Permits issued by the authority having jurisdiction
2856 under this code shall expire eighteen months from date of issue.

2857 NEW SECTION. SECTION 146. There is hereby added to K.C.C. chapter 16.32
2858 a new section to read as follows:

2859 Section 104.4.4 of the Uniform Plumbing Code is not adopted and the following
2860 is substituted:

2861 **Extensions (UPC 104.4.4).** Permits may be renewed once for one-half the
2862 original permit cost or fifty dollars, whichever is less. The renewed permit shall expire
2863 eighteen months from the original expiration date. Any person seeking renewal of a
2864 permit that has previously been renewed, shall apply for a new permit in accordance with
2865 the code and pay the full amount of the permit cost in accordance with the fee schedule.

2866 SECTION 147. Ordinance 15802, Section 132, and K.C.C. 16.32.295 are hereby
2867 amended to read as follows:

2868 Section (~~(103.3.5)~~) 104.4.5 of the Uniform Plumbing Code is not adopted and the
2869 following is substituted:

2870 **Suspension, Revocation or Limitation of Permits (UPC (~~(103.3.5)~~) 104.4.5).**

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2871 ~~((A-))~~ 1. In addition to other remedies provided by law, the authority having
2872 jurisdiction may, in writing, suspend, revoke or limit a permit issued under ~~((the~~
2873 ~~provisions of))~~ this code if:

2874 ~~((1))~~ 1.1. The permit holder committed a violation of this code ~~((or))~~, other
2875 ordinances~~((s))~~ or any rules and regulations adopted by the authority having jurisdiction,
2876 in the course of performing activities subject to that permit;

2877 ~~((2))~~ 1.2. The permit holder interfered with the authority having jurisdiction in
2878 the performance of the authority having jurisdiction's duties relating to the permit;

2879 ~~((3))~~ 1.3. The permit was issued in error or on the basis of materially incorrect
2880 information supplied to the authority having jurisdiction; or

2881 ~~((4))~~ 1.4. Permit fees or costs were paid to the county by check and returned
2882 from a financial institution marked nonsufficient funds or canceled.

2883 ~~((B-))~~ 2. The suspension, revocation or limitation shall be carried out through the
2884 notice and order provisions of K.C.C. Title 23, is effective on the date established by the
2885 notice and order and may be appealed to the King County hearing examiner in
2886 accordance with the appeal provisions of K.C.C. Title 23.

2887 ~~((C))~~ 3. Notwithstanding any other provision of this code, the administrative
2888 authority may immediately suspend operations under a permit by issuing a stop work
2889 order in accordance with this code.

2890 SECTION 148. Ordinance 15802, Section 133, and K.C.C. 16.32.306 are hereby
2891 amended to read as follows:

2892 Section ~~((403.5.6))~~ 105.2.6 of the Uniform Plumbing Code is not adopted and the
2893 following is substituted:

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2894 **Reinspections (UPC (~~103.5.6~~) 105.2.6)**. A reinspection fee may be assessed for
2895 each inspection or reinspection when part or all of the work for which inspection is called
2896 is not complete or when required corrections have not been made.

2897 This provision is not to be interpreted as requiring reinspection fees the first time
2898 a job is rejected for failure to comply with the requirements of this code, but as
2899 controlling the practice of calling for inspections before the job is ready for inspection or
2900 reinspection.

2901 Reinspection fees may be assessed when the approved plans are not readily
2902 available to the inspector, for failure to provide access on the date for which the
2903 inspection is requested, or for deviating from plans when such deviation requires but has
2904 not received the approval of the authority having jurisdiction.

2905 To obtain reinspection, the applicant shall file an application therefor in writing
2906 upon a form furnished for that purpose and pay the reinspection fee in accordance with
2907 K.C.C. (~~16.32.080~~) 16.32.095.

2908 In instances where reinspection fees have been assessed, no additional inspection
2909 of the work (~~will~~) shall be performed until the required fees have been paid.

2910 NEW SECTION. SECTION 149. There is hereby added to K.C.C. chapter 16.32
2911 a new section to read as follows, to follow K.C.C. 16.32.335:

2912 Section 107 of the Uniform Plumbing Code is not adopted.

2913 NEW SECTION. SECTION 150. There is hereby added to K.C.C. chapter 16.32
2914 a new section to read as follows:

2915 Section 501 of the Uniform Plumbing Code is supplemented with the following:

2916 **Water Heaters Used for Space Heating (UPC 501.2).**

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2917 1. Water heaters used both to supply potable hot water and provide hot water for
2918 space-heating applications shall be:

2919 1.1. Listed and labeled for such applications by the manufacturer.

2920 1.2. Installed in accordance with the manufacturer's instructions and this code.

2921 1.3. Sized to prevent the space-heating load from diminishing the required
2922 potable water-heating capacity.

2923 2. Where a combination potable water-heating and space-heating system requires
2924 water for space heating at temperatures higher than 140° F (60° C), a temperature-
2925 actuated mixing valve that conforms to ASSE 1017 shall be provided to temper the water
2926 supplied to the potable hot water distribution system to a temperature of 140° F (60° C)
2927 or less.

2928 NEW SECTION. SECTION 151. There is hereby added to K.C.C. chapter 16.32
2929 a new section to read as follows:

2930 Section 501 of the Uniform Plumbing Code is supplemented with the following:

2931 **Supplemental Water-Heating Devices (UPC 501.3).** Potable water heating
2932 devices that use refrigerant-to-water heat exchangers shall be approved and installed in
2933 accordance with this code and the manufacturer's instructions.

2934 NEW SECTION. SECTION 152. There is hereby added to K.C.C. chapter 16.32
2935 a new section to read as follows:

2936 Section 604.14 of the Uniform Plumbing Code is not adopted and the following is
2937 substituted:

2938 **Termination of Building Supply Piping (UPC 604.14).** Plastic water service
2939 piping may terminate within a building, but the connection to the potable water

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2940 distribution system shall be made as near as is practical to the point of entry and shall be
2941 accessible. Barbed insert fittings with hose clamps are prohibited as a transition fitting
2942 within the building.

2943 **EXCEPTION:** The connection to the potable water distribution system for PVC
2944 and PE piping shall be within one foot of the building perimeter point of entry.

2945 NEW SECTION. SECTION 153. There is hereby added to K.C.C. chapter 16.32
2946 a new section to read as follows:

2947 Section 709.1 of the Uniform Plumbing Code is not adopted and the following is
2948 substituted:

2949 **709.1 General (UPC 709.1).** Plumbing fixtures shall be drained to the sanitary
2950 waste system by gravity flow.

2951 **EXCEPTION:** Plumbing fixtures are permitted to be pumped or ejected as
2952 allowed by UPC 710.2 or approved by the authority having jurisdiction.

2953 NEW SECTION. SECTION 154. There is hereby added to K.C.C. chapter 16.32
2954 a new section to read as follows:

2955 Chapter 9 of the Uniform Plumbing Code is supplemented with the following:

2956 **Air Admittance Valves (UPC 913.0).** Individual fixtures, a branch vent, a
2957 vertical wet vent and a horizontal wet vent may terminate with a connection to an air
2958 admittance valve as follows:

2959 1. Fixtures connected to an air admittance valve shall be located on the same
2960 floor level.

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2961 2. Air admittance valves shall conform to ASSE 1051 for single fixtures, ~~((and))~~
2962 or ASSE 1050 for multiple fixtures, and shall be installed as required in this section and
2963 the manufacturer installation guidelines.

2964 3. Air admittance valves shall be accessible and located:

2965 3.1. In an area that allows air to enter the valve.

2966 3.2. A minimum of ~~((four (4)))~~ 4 inches above the trap arm.

2967 3.3. A minimum of ~~((six (6)))~~ 6 inches above the flood level rim of the highest
2968 fixture being vented, ~~((where))~~ when the air admittance valve serves as a vent termination
2969 for a branch vent, or vertical and horizontal wet vent.

2970 3.4. Not less than ~~((six (6)))~~ 6 inches above insulation materials.

2971 3.5. Within the maximum developed length permitted for the vent as shown in
2972 UPC Table 703.2.

2973 4. The air admittance valve shall be rated in accordance with the standard for the
2974 vent size as determined in UPC Table 703.2.

2975 5. Not less than one plumbing vent sized as required by UPC 904.1 shall extend
2976 to the exterior of the building as required in UPC 906.1.

2977 6. When a horizontal branch drain uses an individual or branch type air
2978 admittance valve, a relief vent shall be installed when the horizontal branch drain is
2979 located more than ~~((four (4)))~~ 4 branch intervals from the top of the building drain or
2980 waste stack. Installations that require a relief vent shall be:

2981 6.1. Submitted for an installation design review before approval.

2982 6.2. Sized in accordance with UPC 904.1.

2983 6.3. Installed in accordance with UPC 905.0.

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2984 6.4. Extended to the outdoors or connect to a vent stack.

2985 6.5. Permitted to serve as the vent for other fixtures.

2986 7. Air admittance valve installations are prohibited for:

2987 7.1. Venting sumps or tanks.

2988 7.2. Non-neutralized chemical waste systems without a design review and

2989 approval by the authority having jurisdiction.

2990 7.3. Any fixtures connected to a grease or fats, oils and grease (FOG) disposal

2991 system.

2992 7.4. Location in spaces used as supply or return air plenums.

2993 NEW SECTION. SECTION 155. There is hereby added to K.C.C. chapter 16.32

2994 a new section to read as follows:

2995 Section 1014.1 of the Uniform Plumbing Code is not adopted and the following is

2996 substituted:

2997 **General (UPC 1014.1).** Where it is determined by the authority having

2998 jurisdiction that waste pretreatment is required, an approved type of grease interceptor(s)

2999 that complies with ASME A112.14.3, ASME A112.14.4, CSA B481, PDI G-101 or PDI

3000 G-102, and sized in accordance with UPC 1014.2.1 or 1014.3.6, shall be installed in

3001 accordance with the manufacturer's installation instructions to receive the drainage from

3002 fixtures or equipment that produce grease-laden waste located in areas of establishments

3003 where food is prepared or other establishments where grease is introduced into the

3004 drainage or sewage system in quantities that can effect line stoppage or hinder sewage

3005 treatment or private sewage disposal systems. A combination of hydromechanical,

3006 gravity grease interceptors and engineered systems are allowed to meet this code and

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3007 other applicable requirements of the authority having jurisdiction where space or existing
3008 physical constraints of existing buildings require such installations. Grease interceptors
3009 are not required for individual dwelling units or private living quarters. Water closets,
3010 urinals and other plumbing fixtures conveying human waste shall not drain into or
3011 through the grease interceptor. Grease interceptors shall comply with UPC 1014.1.1
3012 through 1014.1.3.

3013 **EXCEPTION:** A one-family or two-family home that has an approved
3014 commercial kitchen or prepares food for public sale shall install a grease interceptor that
3015 complies to Section 1014.0 for all fixtures that produce fats, oils and grease (FOG) waste.

3016 NEW SECTION. SECTION 156. There is hereby added to K.C.C. chapter 16.32
3017 a new section to read as follows:

3018 Section 1014.1.3 of the Uniform Plumbing Code is not adopted and the following
3019 is substituted:

3020 **Food Waste Disposers and Dishwashers (UPC 1014.1.3).** No food waste
3021 disposer or dishwasher shall be connected to or discharge into a grease interceptor.
3022 Commercial food waste disposers may discharge directly into the building's drainage
3023 system.

3024 **EXCEPTION:** Food waste disposers may discharge to grease interceptors that
3025 are designed to receive the discharge of food waste or a listed food solids interceptor
3026 shall be installed at the discharge point of the food waste disposer.

3027 SECTION 157. Ordinance 15802, Section 137, and K.C.C. 16.32.345 are hereby
3028 amended to read as follows:

3029 Chapter 10 of the Uniform Plumbing Code is supplemented with the following:

3030 **Parking Garage Drainage Systems (UPC 1018.1).** All garage floor drainage
3031 under the roof of a parking garage shall be connected to the sanitary drainage system,
3032 through the use of a sand interceptor. When the top floor of the building is used as a roof
3033 as well as a parking area, the drainage from the roof shall be connected to the storm
3034 drainage system. Drainage from ~~((conventional))~~ plumbing fixtures shall not be inter-
3035 connected with the ~~((floor))~~ garage drainage system~~((,-H))~~; however, drainage lines from
3036 car or truck washing equipment may be connected to the ~~((floor))~~ approved garage
3037 drainage system ((through an approved sand interceptor)). Garage drains shall comply
3038 with the following:

3039 1. ~~((Floor drainage waste lines))~~ Garage drain piping shall be a minimum of three
3040 inches in size. ~~((Waste unit loading for three inch or larger size floor drainage piping~~
3041 ~~shall be sized in accordance with table 7-5 of this code. Floor drains or floor drain~~
3042 ~~openings shall be equipped with approved strainers and need not be trapped when~~
3043 ~~connected to the building drain through a properly trapped and vented sand interceptor.))~~

3044 2. A ~~((F))~~trap~~((s))~~ shall not be ~~((used when the floor))~~ installed at the garage
3045 ~~drains ((are located in areas exposed to freezing temperatures. The waste line from floor~~
3046 ~~drains entering a sand interceptor shall be above the waste line discharging from the sand~~
3047 ~~interceptor to the building drain. The sand interceptor receiving the floor drains shall~~
3048 ~~have a water seal of not less than six inches. Floor drain traps need not be vented~~
3049 ~~individually if line venting is used through an approved indirect waste system with a~~
3050 ~~properly trapped and vented sand interceptor. A line vent for floor drains shall terminate~~
3051 ~~through the roof or to an approved location in the outside atmosphere. When using line~~
3052 ~~venting, the terminating vents, if more than one, shall be equal in cross sectional area to~~

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3053 the size of the waste line entering the sand interceptor or the line vent may continue full
3054 size from the sand interceptor to the point of termination)). All plans for parking garage
3055 ((floor)) drainage systems shall be submitted to the authority having jurisdiction ((prior
3056 to)) before installation for approval.

3057 **EXCEPTION:** This section shall not apply to one-family or two-family
3058 dwellings.

3059 SECTION 158. Ordinance 15802, Section 138, and K.C.C. 16.32.355 are hereby
3060 amended as follows:

3061 Section ((4104)) 1101.3 of the Uniform Plumbing Code is not adopted and the
3062 following is substituted:

3063 **Combining Storm with Sanitary Sewage (UPC ((4104)) 1101.3).** The sanitary
3064 and storm drainage systems of a building shall be entirely separate.

3065 SECTION 159. Ordinance 2097, Section 1, as amended, and K.C.C. 17.04.010
3066 are hereby amended to read as follows:

3067 The International Fire Code ((2012)) 2018 Edition, together with Appendices B
3068 (Fire-flow requirements for buildings) and C (Fire hydrants location and distribution), as
3069 published by the International Code Council, as amended in chapter 51-54A WAC,
3070 effective February 1, ((2013)) 2021, and referred to in this title as the International Fire
3071 Code ("IFC"), together with amendments, additions, and deletions adopted in this chapter
3072 by reference, together with King County modifications are adopted as the ((Fire Code
3073 to)) King County Fire Code, and referred to in this chapter as "this code." Administrative
3074 rules may be adopted in accordance with K.C.C. chapter 2.98 to further clarify and

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3075 implement these code requirements. The King County modifications shall be codified in
3076 this chapter.

3077 SECTION 160. Ordinance 12560, Section 148, as amended, and K.C.C.
3078 17.04.200 are hereby amended to read as follows:

3079 Section 104.1 of the International Fire Code is not adopted and the following is
3080 substituted:

3081 **General (IFC 104.1).** The ~~((F))~~fire ~~((M))~~marshal is authorized to render
3082 interpretations of this code and make and enforce such rules and regulations, ~~((pursuant~~
3083 ~~to the provisions of))~~ in accordance with K.C.C. chapters 2.98 and 2.100, for the
3084 prevention and control of fires and fire hazards as necessary to ~~((carry out))~~ execute the
3085 application and the intent of this code, including but not limited to:

3086 1. Procedures to ~~((assure))~~ ensure that building permits for structures shall
3087 conform to the requirements of this code.

3088 2. Procedures to ~~((assure))~~ ensure that applicable standards of this code shall be
3089 reviewed as part of the subdivision, short subdivision, urban planned development,
3090 rezone, conditional use, special use, site development permit, binding site plan and
3091 building permit processes.

3092 3. Procedures to assure that the standard known as NFPA 13R shall be applied as
3093 a minimum standard to all R occupancies.

3094 4. Procedures to allow for relaxation of the hydrant spacing requirements by as
3095 much as 50~~((% pursuant to K.C.C. chapter 17.08))~~ percent, except when such allowances
3096 would unreasonably reduce fire protection to the area or structures served.

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3097 ~~((5. A minimum of one certified copy or the number required by governing law~~
3098 ~~of such rules and regulations shall be filed with the clerk of the council and shall be in~~
3099 ~~effect immediately thereafter and additional copies shall be kept in the King County Fire~~
3100 ~~Marshal's Office for distribution to the public.))~~

3101 SECTION 161. Ordinance 2097 (part), as amended, and K.C.C. 17.04.210 are
3102 hereby amended to read as follows:

3103 Section 104.1 of the International Fire Code is supplemented with the following:

3104 **Enforcement (IFC 104.1.1).**

3105 1. The fire marshal ~~((or designee))~~ is authorized to enforce the provisions of this
3106 ~~((chapter))~~ title, the ordinances codified in it, and any adopted rules and regulations in
3107 accordance with the enforcement and penalty provisions of K.C.C. Title 23.

3108 2. The fire marshal ~~((or designee))~~, any officer of the department of public safety,
3109 and the chief of the fire district or designee, is authorized to take such lawful action,
3110 including the writing and issuance of citations for civil infractions, as may be required to
3111 enforce the provisions of the fire lane ordinance codified in this title.

3112 SECTION 162. Ordinance 12560, Section 154, as amended, and K.C.C.

3113 17.04.230 are hereby amended to read as follows:

3114 Section 104.1 of the International Fire Code is supplemented with the following:

3115 **Duties of the fire marshal and fire districts (IFC 104.1.3).**

3116 1. The fire marshal shall have responsibility for administration and inspection
3117 functions to promote compliance of the fire prevention provisions of this code.

3118 2. The ~~((€))~~chiefs of the King County ~~((F))~~fire ~~((D))~~districts ~~((and))~~, municipal
3119 ~~((F))~~fire ~~((D))~~departments and regional fire protection service authorities shall have

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3120 responsibility for fire suppression or extinguishing provisions of this code within their
3121 respective jurisdictions.

3122 3. The fire marshal may, by written contract, delegate to the chiefs of the fire
3123 districts or fire departments authority for inspections of the fire prevention provisions of
3124 this code within their respective jurisdictions.

3125 4. The fire marshal may, at the request of a fire districts or fire department,
3126 assume an advisory status in matters of operations, function, expenditure, tactics,
3127 personnel and equipment or any other function performed by the fire district or fire
3128 department.

3129 SECTION 163. Ordinance 17837, Section 75, and K.C.C. 17.04.295 are hereby
3130 amended to read as follows:

3131 Section 105.7.21 of the International Fire Code is ~~((supplemented with))~~ not
3132 adopted and the following is substituted:

3133 **Solar photovoltaic power systems (IFC ~~((105.7.13))~~ 105.7.21).** A construction
3134 permit ~~((is))~~ shall be required to install or modify solar photovoltaic power systems.

3135 ~~((Exception))~~ **EXCEPTION:** Roof-mounted ~~((photo-voltaic))~~ photovoltaic solar
3136 panels on one and two family dwellings that have a total dead load not exceeding
3137 ~~((three))~~ four pounds per square foot and ~~((-))~~ are mounted no more than eighteen inches
3138 above the roof or highest roof point on which they are mounted.

3139 SECTION 164. Ordinance 14915, Section 25, and K.C.C. 17.04.310 are hereby
3140 amended to read as follows:

3141 Sections ~~((108.3))~~ 109 of the International Fire Code is not adopted.

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3142 SECTION 165. Ordinance 14915, Section 26, and K.C.C. 17.04.320 are hereby
3143 amended to read as follows:

3144 Sections ~~((411.1))~~ 112.1 and 112.2 of the International Fire Code ~~((is))~~ are not
3145 adopted and the following is substituted:

3146 **Order and Issuance (IFC ~~((411.1))~~ 112.1 and 112.2).** Whenever any work is
3147 being done contrary to the provisions of this code, the fire marshal may order the work
3148 stopped in accordance with K.C.C. Title 23 by notice in writing served on any persons
3149 engaged in the doing or causing such work to be done, or by posting such notice in a
3150 conspicuous place on the premises where the violation is occurring, and any such persons
3151 shall ~~((forthwith))~~ immediately stop such work until authorized by the fire marshal to
3152 proceed with the work.

3153 Whenever any work is being done contrary to the provisions of this code, the fire
3154 marshal may order the violations corrected without ordering all work stopped by issuing
3155 a correction notice which identifies the violation. The correction notice may require
3156 reinspection ~~((prior to))~~ before further construction~~((s))~~ or at the time of the next required
3157 inspection. The correction notice shall be served or posted in the same manner as a stop
3158 work order.

3159 These remedies are in addition to those authorized elsewhere in the code.

3160 SECTION 166. Ordinance 14915, Section 27, and K.C.C. 17.04.330 are hereby
3161 amended to read as follows:

3162 Section ~~((411.4))~~ 112.4 of the International Fire Code is not adopted.

3163 NEW SECTION. SECTION 167. There is hereby added to K.C.C. chapter 17.04
3164 a new section to read as follows:

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3165 Section 202 of the International Fire Code is supplemented with the following:

3166 **Definitions (IFC 202.1).** Definitions. The definitions in this section apply

3167 throughout this title unless the context clearly requires otherwise.

3168 A. Applicant: a property owner or a public agency or public or private utility
3169 which owns a right-of-way or associated easement or has been adjudicated the right to
3170 such an easement pursuant to RCW 8.12.090, or any person or entity designated or
3171 named in writing by the property or easement owner to be the applicant, in an application
3172 for a permit.

3173 B. Critical fire service areas: Areas that provide vital services for the
3174 coordination or implementation of fire suppression services, such as fire command
3175 centers, fire pump rooms, interior exit stairways, exit passageways, elevator lobbies,
3176 standpipe cabinets and sprinkler sectional valve locations, and other areas required by the
3177 fire marshal.

3178 C. Fire detection system: a heat and/or smoke detection system monitored by a
3179 central and/or remote station conforming to the current edition of the International Fire
3180 Code as adopted by the Washington State Building Code Council and/or the fire marshal
3181 or designee.

3182 D. Fire marshal: The King County fire marshal as designated in K.C.C.
3183 2.16.055, or designee.

3184 E. Life safety/rescue access: an unobstructed access to all floor levels and each
3185 roof level of a building on not less than twenty percent of the building perimeter by
3186 utilizing a thirty-five foot ladder. An alternate method would be at least one stairway

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3187 enclosure with exit doorways from each floor level and with a door opening onto each
3188 roof level which conforms to the requirements of the International Building Code.

3189 F. NFPA: The National Fire Protection Association.

3190 G. Water main: piping used to deliver water to any fire hydrants or to one or
3191 more individual service connections.

3192 NEW SECTION. SECTION 168. There is hereby added to K.C.C. chapter 17.04
3193 a new section to read as follows:

3194 Section 503.1 of the International Fire Code is not adopted and the following is
3195 substituted:

3196 **Where required (IFC 503.1).** Fire apparatus access roads shall be provided and
3197 maintained for new facilities or buildings, or portions thereof.

3198 NEW SECTION. SECTION 169. There is hereby added to K.C.C. chapter 17.04
3199 a new section to read as follows:

3200 Specifications (IFC 503.2). Fire apparatus access roads shall be installed and
3201 arranged in accordance with IFC 503.2.1 and 503.2.2.

3202 NEW SECTION. SECTION 170. There is hereby added to K.C.C. chapter 17.04
3203 a new section to read as follows:

3204 Section 503.2 of the International Fire Code is not adopted and the following is
3205 substituted:

3206 **Dimensions (IFC 503.2.1).** An approved fire apparatus access road shall be a
3207 minimum of 20 feet wide and provide a minimum unobstructed height of 13 feet 6
3208 inches.

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3209 **SECTION 171.** Ordinance 12560, Section 165, as amended, and K.C.C.

3210 17.04.380 are hereby amended to read as follows:

3211 Section 503.2.2 of the International Fire Code is not adopted and the following is
3212 substituted:

3213 **Surface (IFC 503.2.2).** ~~((Fire apparatus access roads shall be designed and~~
3214 ~~maintained to support the imposed loads of 25 tons))~~ Fire apparatus access roads shall be
3215 designed and maintained to be accessible with an asphalt, concrete or other approved
3216 driving surface suitable for all-weather driving and capable of supporting the imposed
3217 load of fire apparatus weighing at least 75,000 pounds, or other weight as required by the
3218 ~~((F))fire ((M))marshal, and shall ((be provided with a surface so as to provide all-weather~~
3219 ~~driving capabilities that))~~ comply with K.C.C. chapter 14.42~~((, King County Road~~
3220 ~~Standards))~~ and the provisions of this chapter.

3221 **SECTION 172.** Ordinance 7980, Section 1, as amended, and K.C.C. 17.04.420
3222 are hereby amended to read as follows:

3223 Sections 503.3 and 503.4 of the International Fire Code are not adopted and the
3224 following is substituted:

3225 **Marking ~~((of and)), establishment and obstruction of fire lanes~~ (IFC 503.3
3226 and 503.4).**

3227 ~~((A-))~~ 1. Establishment of ~~((F))fire ((L))lanes.~~ Fire lanes in conformance with
3228 this code shall be established by the ~~((King County))~~ fire marshal ~~((or designee,))~~ and
3229 shall be referred to as designated fire lanes in this section.

3230 ~~((B-))~~ 2. Definition of ~~((F))fire ((L))lanes.~~ The area within any public right of
3231 way, easement~~((,))~~ or on private property designated for the purpose of ~~((permitting))~~

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3232 allowing fire trucks and other fire fighting or emergency equipment to use, travel
 3233 upon(;) and park.

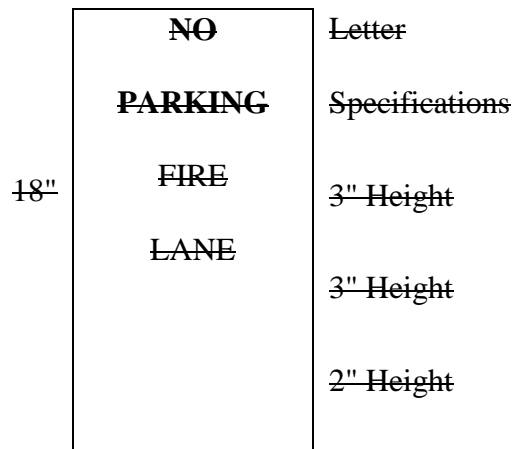
3234 ~~((C-))~~ 3. Marking of ~~((F))~~fire ~~((L))~~lanes. All designated fire lanes shall be clearly
 3235 marked ~~((in the following manner))~~ as follows:

3236 3.1. Vertical curbs ~~((6 inch))~~ shall be painted ~~((yellow))~~ red on the top and
 3237 side, extending the length of the designated fire lane. The pavement adjacent to the
 3238 painted curbs shall be marked with minimum 18 inch in height block lettering with a
 3239 minimum 3- inch brush stroke reading: "NO PARKING - FIRE LANE." Lettering shall
 3240 be ~~((yellow))~~ white and spaced at 50 foot or portion thereof intervals~~((,-or))~~;

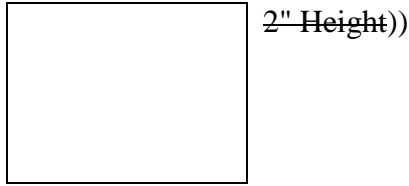
3241 3.2. Rolled curbs or surface without curbs shall have a ~~((yellow))~~ red 6~~((-))~~-inch
 3242 wide stripe painted extending the length of the designated fire lane. The surface adjacent
 3243 to the stripe shall be marked with minimum 18 inch in height block lettering with a
 3244 minimum 3- inch brush stroke reading: "NO PARKING - FIRE LANE." Lettering shall
 3245 be in ~~((yellow))~~ white and spaced at 50 ft. or portion thereof intervals~~((,-))~~; or

3246 3.3. Fire lane signs shall be installed ~~((per the illustration))~~ as follows:

~~((12"~~



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3247 a. (~~Reflective in nature.~~) Signs shall be a type "R8-31" reflective sign or of an
3248 equivalent reflectivity.

3249 b. Red letters on white background with the wording:
3250 "NO PARKING
3251 FIRE LANE"

3252 c. Signs (~~to be spaced 50 feet or portion thereof apart and posted on or~~
3253 ~~immediately next to the curb~~) shall be no less than 12 inches by 18 inches in size and
3254 shall be placed at a maximum center-to-center spacing of 150 feet on both sides of the
3255 fire lane, or an additional sign may be put beneath the fire lane sign lettered as:
3256 "BOTH SIDES"

3257 d. (~~Top of signs to be not less than 4 feet nor more than 6 feet from the~~
3258 ~~ground.~~) Signs shall be posted at a minimum height of 7 feet measured from the road or
3259 sidewalk to the bottom of the sign, unless required otherwise by this section.

3260 e. Signs may be placed on a fence or building when approved by the fire
3261 marshal (~~as the designee of the department of local services permitting division~~
3262 ~~manager~~). When signs are wall or fence mounted, they shall be posted at a minimum
3263 height of 5 feet measured from the road or sidewalk to the top of the sign.

3264 f. When posts are required, they shall (~~be a minimum of 2 inch galvanized~~
3265 ~~steel or 4 inch x 4 inch pressure treated wood~~) meet current road standards in K.C.C.

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3266 chapter 14.42. Signs ~~((t))~~ shall be placed so they face the direction of the vehicular
3267 travel.

3268 g. Sign numbers and spacing may be modified by the King County fire
3269 marshal.

3270 ~~((D:))~~ 4. Obstruction of Fire Lanes Prohibited. Unless required otherwise by this
3271 chapter, ~~((F))~~ the obstruction of a designated fire lane by a parked vehicle or any other
3272 object is prohibited, shall constitute a traffic hazard as defined in state law and an
3273 immediate hazard to life and property.

3274 ~~((E:))~~ 5. Alternate ~~((M))~~ materials and ~~((M))~~ methods. The fire marshal ~~((as~~
3275 ~~designee of the department of local services permitting division manager))~~ may modify
3276 any of the provisions ~~((herein))~~ of this section where practical difficulties exist. The
3277 particulars of a modification ~~((shall be granted))~~ that are approved by the fire marshal
3278 ~~((and))~~ shall be entered into the final records ~~((of the office))~~ for the project permit.

3279 ~~((F:))~~ 6. Existing fire lane signs and markings.

3280 6.1. Signs ~~((t))~~ that are a minimum 9 inches by 16 inches ~~((t))~~ may be allowed to
3281 remain until there is a need for replacement and at that time a 12 inch ~~((*)~~ by 18 inch
3282 sign shall be installed.

3283 6.2. Markings may be allowed to remain until there is a need for repainting
3284 ~~((and at that time the provisions outlined in Section C, 1, 2 or 3 shall be complied with)).~~

3285 When markings are repainted, they shall comply with subsection 3. of this section.

3286 ~~((G:))~~ 7. Maintenance. Fire lane markings shall be maintained at the expense of
3287 the property owner ~~((s))~~ as often as needed to clearly identify the designated area as
3288 being a fire lane.

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3289 ~~((H.))~~ 8. Towing notification. At each entrance to property where fire lanes have
3290 been designated, signs shall be posted in a clearly conspicuous location and shall clearly
3291 state that vehicles parked in fire lanes may be impounded, and the name, telephone
3292 number~~((;))~~ and address of the towing firm where the vehicle may be ~~((redeemed))~~
3293 collected.

3294 ~~((I.))~~ 9. Property owner responsible. The owner, manager~~((;))~~ or person in charge
3295 of any property upon which designated fire lanes have been established shall prevent the
3296 parking of vehicles or placement of other obstructions in such fire lanes.

3297 ~~((J.))~~ 10. Violation - Civil infraction. Any person who fails to mark or maintain
3298 the marking of a designated fire lane as prescribed in this chapter, or who parks a vehicle
3299 in, allows the parking of a vehicle in, obstructs~~((;))~~ or allows the obstruction of a
3300 designated fire lane, commits a civil infraction to which the provisions of ~~((RCW))~~
3301 chapter 7.80 RCW shall apply. The penalty for failing to mark or maintain the marking
3302 of a designated fire lane shall be one hundred and fifty dollars. The penalty for parking a
3303 vehicle in, allowing the parking of a vehicle in, obstructing~~((;))~~ or allowing the
3304 obstruction of a designated fire lane shall be fifty dollars.

3305 ~~((K.))~~ 11. Violation - Civil ~~((P))~~penalty. In addition to, or as an ~~((alternate))~~
3306 alternative to, the provisions of subsection ~~((E))~~ 10. of this section, any person who fails
3307 to meet the provisions of the fire lane requirements codified in this title shall be subject to
3308 civil penalties in conformance with K.C.C. ~~((Chapter))~~ Title 23.

3309 ~~((L.))~~ 12. Impoundment. Any vehicle or object obstructing a designated fire lane
3310 is hereby declared a traffic hazard and may be abated without prior notification to its
3311 owner by impoundment ~~((pursuant to))~~ in accordance with the applicable state law.

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3312 NEW SECTION. SECTION 173. There is hereby added to K.C.C. chapter 17.04

3313 a new section to read as follows:

3314 Section 503.6 of the International Fire Code is not adopted and the following is
3315 substituted.

3316 **Security gates, bollards or other obstructions (IFC 503.6).**

3317 1. The installation of security gates, bollards or other obstructions across a fire
3318 apparatus access road shall not be allowed unless (~~reviewed and~~) approved by the fire
3319 marshal. The use of directional-limiting devices, such as tire spikes, is prohibited.

3320 Where security gates, bollards or other obstructions are installed, they shall have an
3321 approved means of emergency operation. The security gates, bollards or other
3322 obstructions and the emergency operation shall be maintained so that they are operational
3323 at all times.

3324 2. Electric gate operators shall be listed in accordance with Underwriter
3325 Laboratories (UL) 325. Gates intended for automatic operation shall be designed,
3326 constructed and installed to comply with the requirements of American Society for
3327 Testing and Materials (ASTM) F 2200 and shall be equipped with equipment approved
3328 by the fire marshal that allows for operation of the gate by fire and police personnel from
3329 their vehicle.

3330 3. Gates shall be at a minimum as wide as the required fire apparatus access road
3331 width. Gates, bollards or other obstructions on commercial properties shall be set back at
3332 least 30 feet from roadway edge of pavement. Where a fence is provided on each side of
3333 a gate for a commercial property, an access door shall be provided at an approved
3334 location with a secure key box that is approved by the fire marshal.

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3335 **EXCEPTION:** Automated gates with equipment approved by the fire marshal
3336 that allow for operation of the gate by fire and police personnel from their vehicle are not
3337 required to be set back 30 feet from the roadway edge of pavement if the roadway is not a
3338 principal or collector arterial or a ((street)) road with lane markers.

3339 NEW SECTION. SECTION 174. There is hereby added to K.C.C. chapter 17.04
3340 a new section to read as follows:

3341 Section 504.3 of the International Fire Code is supplemented with the following:

3342 **Roof hatches (IFC 504.3.1).** All required interior stairways that extend to the top
3343 floor in any building four or more stories in height shall have, at the highest point of the
3344 stair shaft, an approved hatch that can open to the exterior not less than 16 square feet
3345 (1.5m²) in area and having a minimum dimension of 3 feet (914mm).

3346 **EXCEPTION:** A roof hatch is not required for stairways that extend to the roof
3347 with an opening onto that roof or for stairways that comply with International Building
3348 Code Section 1011.12.2.

3349 NEW SECTION. SECTION 175. There is hereby added to K.C.C. chapter 17.04
3350 a new section to read as follows:

3351 Section 504 of the International Fire Code is supplemented with the following:

3352 **Buildings with enclosed interior courtyards (IFC 504.5).** New buildings with
3353 enclosed interior courtyards shall have a straight, direct access corridor or stairway or
3354 both from the exterior to the courtyard at a location acceptable to the fire marshal.

3355 Stairways shall comply with IFC 1011 and corridors shall comply with IFC 1020. The
3356 access shall have a minimum width of 4 feet, or an alternative width as directed by the
3357 fire marshal, and be large enough to carry a 35-foot-long sectional ladder, with a

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3358 minimum folded length of 20 feet, directly from the exterior to the courtyard without
3359 obstructions. The access door shall be marked at the ((~~street~~)) road as "Direct access to
3360 courtyard."

3361 SECTION 176. Ordinance 14915, Section 56, and K.C.C. 17.04.450 are hereby
3362 amended to read as follows:

3363 Section 505.1 of the International Fire Code is not adopted and the following is
3364 substituted:

3365 **Premises identification – Addresses (IFC 505.1).** Approved numbers or
3366 addresses shall be provided for all new and existing buildings (~~(in such a position as to be~~
3367 ~~plainly visible and legible from the street or road fronting the property)~~) in accordance
3368 with K.C.C. chapter 16.08.

3369 NEW SECTION. SECTION 177. There is hereby added to K.C.C. chapter 17.04
3370 a new section to read as follows:

3371 Section 507.1 of the International Fire Code is supplemented with the following:

3372 **Required water supply (IFC 507.1.1).** Underground piping shall conform to the
3373 following requirements:

3374 1. All underground piping shall be designed, constructed and installed in
3375 accordance with NFPA 24 for private fire service mains and NFPA 13 for water-based
3376 fire protection systems. Two forms of joint restraint shall be used.

3377 2. Piping systems under the control of a water district or city utilities department
3378 shall be installed in accordance with said Utilities Engineering Standard. The fire
3379 marshal shall be responsible for determining hydrant spacing and location connecting to
3380 these systems.

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3381 NEW SECTION. SECTION 178. There is hereby added to K.C.C. chapter 17.04
3382 a new section to read as follows:

3383 Section 510.1 of the International Fire Code is not adopted and the following is
3384 substituted:

3385 **Emergency responder radio coverage in new buildings (IFC 510.1).** New
3386 buildings meeting the conditions of this section shall have an approved radio coverage
3387 system for emergency responders installed in accordance with IFC 510.4 through 510.5.5
3388 and NFPA 1221. Radio coverage is based upon the existing coverage levels of the public
3389 safety communication systems of the jurisdiction at the exterior of the building. This
3390 section shall not require improvements of the existing public safety communication
3391 system. An approved radio coverage system shall be provided within new buildings
3392 meeting any of the following conditions:

- 3393 1. High-rise buildings;
- 3394 2. The total building area is 50,000 square feet or more;
- 3395 3. The total basement area is 10,000 square feet or more;
- 3396 4. There are floors used for human occupancy more than 30 feet below the
3397 finished floor of the lowest level of exit discharge; or
- 3398 5. Buildings or structures where the fire marshal determines, in consultation with
3399 the fire chief, that in-building radio coverage is critical because of its unique design,
3400 location, use or occupancy.

3401 **EXCEPTIONS:**

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3402 1. Buildings and areas of buildings that have minimum radio coverage signal
3403 strength levels of the public safety radio operator within the building in accordance with
3404 IFC 510.4.1 without the use of a radio coverage system.

3405 2. In facilities where emergency responder radio coverage is required and such
3406 systems, components or equipment required could have a negative impact on the normal
3407 operations of that facility, the fire marshal shall have the authority to accept an
3408 automatically activated emergency responder radio coverage system.

3409 3. One- and two-family dwellings and townhouses.

3410 4. Where it is determined by the fire marshal that the radio coverage system is
3411 not needed.

3412 NEW SECTION. SECTION 179. There is hereby added to K.C.C. chapter 17.04
3413 a new section to read as follows:

3414 Section 510.4.1 of the International Fire Code is not adopted and the following is
3415 substituted:

3416 **Emergency responder communication enhancement system signal strength**
3417 **(IFC 510.4.1).** A building shall be considered to have acceptable emergency responder
3418 communications enhancement system coverage when the following conditions are met:

3419 1. Emergency responder communications enhancement system signal strength
3420 measurements in 95 percent of all areas on each floor of the building meet the signal
3421 strength requirements in IFC 510.4.1.1 through 510.4.1.3; and

3422 2. Critical fire service areas shall have 99 percent floor area radio coverage.

3423 NEW SECTION. SECTION 180. There is hereby added to K.C.C. chapter 17.04
3424 a new section to read as follows:

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3425 Section 510.4.1.2 of the International Fire Code is not adopted and the following
3426 is substituted:

3427 **Minimum signal strength out of the building (IFC 510.4.1.2).** The minimum
3428 outbound signal strength shall be sufficient to provide usable voice communications
3429 throughout the coverage area as specified by the fire marshal. The outbound signal level
3430 shall be sufficient to provide not less than a DAQ of 3.4 or an equivalent SINR applicable
3431 to the technology for either analog or digital signals. A minimum signal strength of -100
3432 dBm shall be received by the public safety radio operator when transmitted from within
3433 the building.

3434 NEW SECTION. SECTION 181. There is hereby added to K.C.C. chapter 17.04
3435 a new section to read as follows:

3436 Section 510.4.2.1 of the International Fire Code is not adopted and the following
3437 is substituted:

3438 **Amplification systems and components (510.4.2.1).** Buildings and structures
3439 that cannot support the required level of radio coverage shall be equipped with systems
3440 and components to enhance the public safety radio signals and achieve the required level
3441 of radio coverage specified in IFC 510.4.1 through 510.4.1.3. Public safety
3442 communications enhancement systems utilizing radio-frequency-emitting devices and
3443 cabling shall be approved by the fire code marshal. Prior to activating rebroadcasting of
3444 public safety frequencies, all RF-emitting devices shall obtain an executed rebroadcast
3445 agreement from the public safety radio system operator and be suitable for public safety
3446 use.

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3447 NEW SECTION. SECTION 182. There is hereby added to K.C.C. chapter 17.04

3448 a new section to read as follows:

3449 Section 510.4.2.4 of the International Fire Code is not adopted and the following
3450 is substituted:

3451 **Signal booster requirements (IFC 510.4.2.4).**

3452 1. All signal booster components shall be contained in a National Electrical
3453 Manufacturer's Association (NEMA) 4-type, IP65 or IP66 waterproof cabinet or
3454 equivalent.

3455 **EXCEPTION:** Listed battery systems that are contained in integrated battery
3456 cabinets.

3457 2. Battery systems used for the emergency power source shall be contained in a
3458 NEMA 3R or higher-rated cabinet, IP14-type waterproof cabinet or equivalent.

3459 3. Equipment shall have FCC or other radio licensing authority certification and
3460 be suitable for public safety use before installation.

3461 4. Where a donor antenna exists, isolation shall be maintained between the donor
3462 antenna and all inside antennas to not less than 20dB more than the system gain under all
3463 operating conditions.

3464 5. Active RF emitting devices used in emergency responder radio coverage
3465 systems shall have built-in oscillation detection and control circuitry.

3466 6. The installation of amplification systems or systems that operate on or provide
3467 the means to cause interference on any emergency responder radio coverage networks
3468 shall be coordinated and approved by the fire marshal and the public safety radio
3469 operator.

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3470 7. Unless otherwise approved by the fire marshal, only channelized signal
3471 boosters shall be permitted. Channelized signal boosters shall comply with operating
3472 requirements of the public safety radio operator, including the capacity of supporting a
3473 minimum of 28 channels and 800 MHz analog and digital operation including P25 Phase
3474 I frequency division multiple access (FDMA) and P25 Phase II time division multiple
3475 access (TDMA).

3476 NEW SECTION. SECTION 183. There is hereby added to K.C.C. chapter 17.04
3477 a new section to read as follows:

3478 Section 510.4.2.5 of the International Fire Code is not adopted and the following
3479 is substituted:

3480 **System monitoring (IFC 510.4.2.5).** The emergency responder radio
3481 enhancement system shall include automatic supervisory and trouble signals that are
3482 monitored by a supervisory service and are annunciated by the fire alarm system in
3483 accordance with NFPA 1221. The following conditions shall be separately annunciated
3484 by the fire alarm system or, if the status of each of the following conditions is
3485 individually displayed on a dedicated panel on the radio enhancement system, a single
3486 automatic supervisory signal may be annunciated on the fire alarm system indicating
3487 deficiencies of the radio enhancement system:

- 3488 1. Loss of normal AC power supply.
- 3489 2. System battery charger(s) failure.
- 3490 3. Malfunction of the donor antenna(s).
- 3491 4. Failure of active RF-emitting device(s).
- 3492 5. Low-battery capacity at 70-percent reduction of operating capacity.

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3493 6. Active system component malfunction.

3494 7. Malfunction of the communications link between the fire alarm system and the
3495 emergency responder radio enhancement system.

3496 NEW SECTION. SECTION 184. There is hereby added to K.C.C. chapter 17.04
3497 a new section to read as follows:

3498 Section 510.5.1 of the International Fire Code is not adopted and the following is
3499 substituted:

3500 **Approval prior to installation (IFC 510.5.1).** Amplification systems capable of
3501 operating on frequencies licensed to any public safety agency by the FCC or other radio
3502 licensing authority shall not be activated to rebroadcast without prior coordination and
3503 approval of the fire marshal and public safety radio system operator.

3504 NEW SECTION. SECTION 185. There is hereby added to K.C.C. chapter 17.04
3505 a new section to read as follows:

3506 Section 510.5.2 of the International Fire Code is not adopted and the following is
3507 substituted:

3508 **Minimum qualifications of personnel (IFC 510.5.2).** The minimum
3509 qualifications of the system designer and lead installation personnel shall include the
3510 following:

- 3511 1. A valid FCC-issued general radiotelephone operators license; and
- 3512 2. Certification of in-building system training issued by an organization or school
3513 approved by the fire marshal, or a certificate issued by the manufacturer of the equipment
3514 being installed.

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3515 NEW SECTION. SECTION 186. There is hereby added to K.C.C. chapter 17.04
3516 a new section to read as follows:

3517 Section 510.5.3 of the International Fire Code is not adopted and the following is
3518 substituted:

3519 **Acceptance test procedure (IFC 510.5.3).** Where an emergency responder radio
3520 coverage system is required, and upon completion of installation, the building owner
3521 shall have the radio system tested to verify that two-way coverage on each floor of the
3522 building in accordance with IFC 510.4.1. The test procedure shall be conducted as
3523 follows:

3524 1. Each floor of the building shall be divided into a grid of 20 approximately
3525 equal test areas, with a maximum test area size of 6,400 square feet. Where the floor area
3526 exceeds 128,000 square feet, the floor shall be divided into as many approximately equal
3527 test areas as needed, such that no test area exceeds the maximum square footage allowed.

3528 2. Coverage testing of signal strength shall be conducted using a calibrated
3529 spectrum analyzer for each of the test grids. A diagram of this testing shall be created for
3530 each floor where coverage is provided, indicating the testing grid used for the test in IFC
3531 510.5.3(1), and including inbound signal strengths and frequencies for each test area.
3532 The diagram shall indicate all critical fire service areas.

3533 3. Functional talk-back testing shall be conducted using two calibrated portable
3534 radios of the latest brand and model used by the agency's radio communications system
3535 or other equipment approved by the fire marshal. Testing shall use Digital Audible
3536 Quality (DAQ) metrics, where a passing result is a DAQ of 3.4 or higher.
3537 Communications between handsets shall be tested and recorded in the grid square

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3538 diagram required by IFC 510.5.3(2): each grid square on each floor; between each
3539 critical fire service area and a radio outside the building; between each critical fire service
3540 area and the fire command center or fire alarm control panel; and between each landing
3541 in each stairwell and the fire command center or fire alarm control panel.

3542 4. Failure of more than five percent of the test areas on any floor shall result in
3543 failure of the test.

3544 **EXCEPTION:** Critical fire service areas shall be provided with 99 percent floor
3545 area coverage.

3546 5. If two of the test areas fail the test, and to be more statistically accurate, the
3547 floor shall be permitted to be divided into 40 equal test areas. Failure of not more than
3548 two nonadjacent test areas shall not result in failure of the test. If the system fails the 40-
3549 area test, the system shall be altered to meet the 95 percent coverage requirement.

3550 6. A test location approximately in the center of each test area shall be selected
3551 for the test, with the radio enabled to verify two-way communications to and from the
3552 outside of the building through the public agency's radio communications system. Once
3553 the test location has been selected, that location shall represent the entire test area.

3554 Failure in the selected test location shall be considered to be a failure of that test area.

3555 Additional test locations shall not be permitted.

3556 7. The gain values of all amplifiers shall be measured, and the test measurement
3557 results shall be kept on file with the building owner so that the measurements can be
3558 verified during annual tests. If the measurement results become lost, the building owner
3559 shall be required to rerun the acceptance test to reestablish the gain values.

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3560 8. As part of the installation, a spectrum analyzer or other suitable test equipment
3561 shall be used to ensure spurious oscillations are not being generated by the subject signal
3562 booster. This test shall be conducted at the time of installation and at subsequent annual
3563 inspections.

3564 9. Systems incorporating Class B signal booster devices or Class B broadband
3565 fiber remote devices shall be tested using two portable radios simultaneously conducting
3566 subjective voice quality checks. One portable radio shall be positioned not more than 10
3567 feet (3,048 mm) from the indoor antenna. The second portable radio shall be positioned
3568 at a distance that represents the farthest distance from any indoor antenna. With both
3569 portable radios simultaneously keyed up on different frequencies within the same band,
3570 subjective audio testing shall be conducted and comply with DAQ levels as specified in
3571 IFC 510.4.1.1 and 510.4.1.2.

3572 10. At the conclusion of the testing, and before issuance of the building
3573 certificate of occupancy, the building owner or owner's representative shall place a copy
3574 of the following records in the DAS enclosure or the main building office. The
3575 following records shall be available to the fire marshal and maintained by the building
3576 owner for the life of the system:

3577 a. A certification letter stating that the emergency responder radio coverage
3578 system has been installed and tested in accordance with this code, and that the system is
3579 complete and fully functional.

3580 b. The grid square diagram created as part of testing in IFC 510.5.3(2) and
3581 510.5.3(3).

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3582 c. Data sheets and manufacturer specifications for the emergency responder
3583 radio coverage system equipment, back up battery and charging system, if used.

3584 d. A diagram showing device locations and wiring schematic.

3585 e. A copy of the electrical permit.

3586 11. At the conclusion of testing, and before issuance of the building certificate of
3587 occupancy, the building owner or owner's representative shall submit to the fire marshal a
3588 report of the acceptance test.

3589 NEW SECTION. SECTION 187. There is hereby added to K.C.C. chapter 17.04
3590 a new section to read as follows:

3591 Section 510.5 of the International Fire Code is supplemented with the following:

3592 **Wiring (IFC 510.5.6).** The backbone, antenna distribution, radiating or any
3593 fiber-optic cables or other system interconnection cables shall be rated as plenum cables.
3594 The backbone cables shall be connected to the antenna distribution, radiating or copper
3595 cables using hybrid coupler devices of a value determined by the overall design.

3596 Backbone cables, and the connection between backbone cables and antenna cables, shall
3597 be routed through an enclosure that matches the building's required fire-resistance rating
3598 for shafts or interior exit stairways. Passage of the antenna distribution cable in and out
3599 of the enclosure shall be protected as a penetration under the International Building Code.

3600 NEW SECTION. SECTION 188. There is hereby added to K.C.C. chapter 17.04
3601 a new section to read as follows:

3602 Section 510.5 of the International Fire Code is supplemented with the following:

3603 **Identification Signs (IFC 510.5.7).** Emergency responder radio coverage
3604 systems shall be identified by an approved sign located on or near the Fire Alarm Control

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3605 Panel, or other approved location, stating "This building is equipped with an Emergency
3606 Responder Radio Coverage System. Control Equipment located in room____." A sign
3607 stating "Emergency Responder Radio Coverage System Equipment" shall be placed on or
3608 adjacent to the door of the room containing the main system components.

3609 NEW SECTION. SECTION 189. There is hereby added to K.C.C. chapter 17.04
3610 a new section to read as follows:

3611 Section 510.6.1 of the International Fire Code is not adopted and the following is
3612 substituted:

3613 **Testing and proof of compliance (510.6.1).** The owner of the building or
3614 owner's authorized agent shall have the emergency responder radio coverage system be
3615 inspected and tested annually or when structural changes occur, including additions or
3616 remodels that could materially change the original field performance tests. Testing shall
3617 consist of the following:

3618 1. In-building coverage test as required by the fire marshal and as described in
3619 IFC 510.5.3 or IFC 510.6.1.

3620 **EXCEPTION:** Group R Occupancy annual testing is not required within
3621 dwelling units.

3622 2. Signal boosters shall be tested to verify that the gain or output level is the same
3623 as it was upon initial installation and acceptance or set to optimize the performance of the
3624 system. Altering of the distributed antenna systems (DAS) output from the initial
3625 commissioning values shall require revalidation by the public safety radio operator.

3626 3. Backup batteries and power supplies shall be tested under load of a period of
3627 one hour to verify that they will properly operate during an actual power outage. If

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3628 within the one-hour test period the battery exhibits symptoms of failure, the test shall be
3629 extended for additional one-hour periods until the integrity of the battery can be
3630 determined.

3631 4. If a fire alarm system is present in the building, a test shall be conducted to
3632 verify that the fire alarm system is properly supervising the emergency responder
3633 communication system as required in IFC 510.4.2.5. The test is performed by simulating
3634 alarms to the fire alarm control panel. The certifications in IFC 510.5.2 are sufficient for
3635 the personnel performing this testing.

3636 5. Other active components shall be checked to verify operation within the
3637 manufacturer's specifications.

3638 6. At the conclusion of the testing, a report, which shall verify compliance with
3639 IFC 510.6.1, shall be submitted to the fire marshal.

3640 7. At the conclusion of testing, a record of the inspection and maintenance along
3641 with an updated grid diagram of each floor showing tested strengths in each grid square
3642 and each critical fire service area shall be added to the documentation maintained on the
3643 premises in accordance with IFC 510.5.3.

3644 NEW SECTION. SECTION 190. There is hereby added to K.C.C. chapter 17.04
3645 a new section to read as follows:

3646 Section 510.6.1 of the International Fire Code is supplemented with the
3647 following:

3648 **Alternative acceptance test procedure. (IFC 510.6.1.1).** When the
3649 comprehensive test documentation required by IFC 510.5.3 is available, or the most

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3650 recent five-year test results are available if the system is older than six years, the in-
3651 building coverage test required by IFC 510.6.1(1) may be conducted as follows:

3652 1. Functional talk-back testing shall be conducted using two calibrated portable
3653 radios of the latest brand and model used by the agency's radio communications system
3654 or other equipment approved by the fire marshal. Testing shall use Digital Audible
3655 Quality (DAQ) metrics, where a passing result is a DAQ of 3.4 or higher.

3656 Communications between handsets in the following locations shall be tested: between the
3657 fire command center or fire alarm control panel and a location outside the building; and
3658 between the fire alarm control panel and each landing in each stairwell.

3659 2. Coverage testing of signal strength shall be conducted using a calibrated
3660 spectrum analyzer for:

3661 a. The three grid areas to be tested on each floor are the three grid areas with
3662 poorest performance in the acceptance test or the most recent annual test, whichever is
3663 more recent;

3664 b. Each of the critical fire service areas identified in acceptance test
3665 documentation required by IFC 510.5.3 or as modified by the fire marshal; and

3666 c. One grid square per serving antenna.

3667 3. The test area boundaries shall not deviate from the areas established at the time
3668 of the acceptance test or as modified by the fire marshal. The building shall be
3669 considered to have acceptable emergency responder radio coverage when the required
3670 signal strength requirements in IFC 510.4.1.1 and 510.4.1.2 are located in 95 percent of
3671 all areas on each floor of the building and 99 percent in critical fire service areas, and any
3672 non-functional serving antenna are repaired to function within normal ranges. If the

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3673 documentation of the acceptance test or most recent previous annual test results are not
3674 available or acceptable to the fire marshal, the radio coverage verification testing
3675 described in IFC 510.5.3 shall be conducted.

3676 NEW SECTION. SECTION 191. There is hereby added to K.C.C. chapter 17.04
3677 a new section to read as follows:

3678 Section 510.6.4 of the International Fire Code is not adopted and the following is
3679 substituted:

3680 **Field Testing (IFC 510.6.4).** Department personnel shall have the right to enter
3681 onto the property at any reasonable time to conduct field testing to verify the required
3682 level of radio coverage or to disable a system that, due to malfunction or poor
3683 maintenance, has the potential to impact the emergency responder radio system in the
3684 region.

3685 NEW SECTION. SECTION 192. There is hereby added to K.C.C. chapter 17.04
3686 a new section to read as follows:

3687 Section 901.1 of the International Fire Code is not adopted and the following is
3688 substituted:

3689 **Scope (IFC 901.1).** This chapter specifies where fire protection and life safety
3690 systems are required and applies to the design, installation, inspection, operation, testing
3691 and maintenance of fire protection systems.

3692 **1. ADDITIONAL REQUIREMENTS.**

3693 1.1. The fire marshal retains the authority under the IFC to impose additional
3694 conditions, including but not limited to increased setbacks, use of fire retardant materials
3695 or standpipes where determined necessary to mitigate identified fire protection impacts.

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3696 1.2. This chapter applies to all buildings or structures undergoing a substantial
3697 improvement as defined in K.C.C. chapter 21A.06.

3698 1.3. Any additions to an existing building or structure shall be considered new
3699 construction and subject the entire structure to the provisions of this chapter.

3700 1.4. All condominiums shall have the following wording in the recorded
3701 Declaration of Covenants and a copy of the document shall be provided to the fire
3702 marshal:

3703 1.4.1 If any unit is equipped with a sprinkler system, nothing shall be hung
3704 from the sprinklers comprising a part of the system nor shall any such sprinklers be
3705 painted, covered or otherwise changed, tampered with or altered.

3706 1.4.2. Before any alteration, amendment, modification or change thereof, the
3707 owners or their agents shall submit such alteration, amendment, modification or change
3708 to the fire marshal for approval and agree to comply with all applicable sprinkler
3709 requirements.

3710 SECTION 193. Ordinance 12560, Section 171, as amended, and K.C.C.
3711 17.04.520 are hereby amended to read as follows:

3712 Section 903.1 of the International Fire Code is not adopted and the following is
3713 substituted:

3714 **General (IFC 903.1).**

3715 1. An automatic fire-extinguishing system shall be installed in the occupancies
3716 and locations ~~((as set forth))~~ in ~~((Section))~~ accordance with IFC 903.2.

3717 For provisions on special hazards and hazardous materials, see ~~((Section))~~ IFC
3718 901.4.((3))4.

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3719 2. The provisions of this section shall apply to all buildings (~~whose county~~
3720 ~~assessed value has increased by more than 50% within a five year period due to the added~~
3721 ~~value of alterations and repairs. When the first permit application is submitted to add to,~~
3722 ~~alter or repair an existing building, the county assessed value of the building at the time~~
3723 ~~the complete application is submitted shall be considered the base county assessed value~~
3724 ~~for the following five year period~~) undergoing a substantial improvement as defined in
3725 K.C.C. chapter 21A.06.

3726 (~~**(EXCEPTION:** Structures damaged as a result of a disaster declared in~~
3727 ~~accordance with K.C.C. chapter 12.52, shall comply with K.C.C. 17.04.610 and~~
3728 ~~17.04.620.)~~)

3729 3. Any additions to an existing structure shall be considered new construction and
3730 subject the entire structure to the provisions of this section.

3731 **EXCEPTION((S)):** A one-time exemption for buildings regulated by the
3732 International Residential Code (~~(One and Two Family Dwellings will)~~) shall be allowed
3733 for a single addition not to exceed 500 square feet, unless sprinklers or other fire
3734 protection systems are required by other statutes.

3735 4. All condominiums shall have the following wording in the recorded
3736 Declaration of Covenants and a copy of the document shall be provided to the fire (~~code~~
3737 ~~official or designee~~) marshal:

3738 4.1. (~~(In the event that a)~~) If any unit (~~(should be)~~) is equipped with a sprinkler
3739 system, nothing shall be hung from the sprinklers comprising a part of the system nor
3740 shall any such sprinklers be painted, covered(~~(;))~~) or otherwise changed, tampered with or
3741 altered.

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3742 4.2. ~~((Prior to))~~ Before any alteration, amendment, modification or change
3743 thereof, the owners or their agents ~~((will))~~ shall submit such alteration, amendment,
3744 modification or change to the ~~((King County))~~ fire marshal ~~((or designee))~~ for approval
3745 and agrees to comply with all applicable sprinkler requirements.

3746 SECTION 194. Ordinance 14111, Section 215, as amended, and K.C.C.
3747 17.04.540 are hereby amended to read as follows:

3748 Section 903.2 of the International Fire Code is not adopted and the following is
3749 substituted:

3750 **Where required (IFC 903.2).** Sprinklers are required as follows:

3751 1. For residential units and their accessory structures built under the International
3752 Residential Code, sprinklers shall be installed ~~((as set forth))~~ in ~~((Section))~~ accordance
3753 with IFC 903.2.1((3))1.

3754 2. For all other occupancies an automatic sprinkler system shall be installed in
3755 ~~((the))~~ locations ~~((set forth))~~ in ~~((Section))~~ in accordance with IFC 903.2.1 through
3756 ~~((Section))~~ 903.2.12.

3757 **EXCEPTION:** Spaces or areas in telecommunications buildings used
3758 exclusively for telecommunications equipment, associated electrical power distribution
3759 equipment, batteries and standby engines, ~~((provided))~~ if those spaces or areas are
3760 equipped throughout with an automatic smoke detection system in accordance with
3761 ~~((Section))~~ IFC 907.2 and are separated from the remainder of the building by not less
3762 than 1-hour fire barriers constructed in accordance with ~~((Section))~~ IFC 707 or not less
3763 than 2-hour horizontal assemblies constructed in accordance with ~~((Section))~~ IFC 711, or
3764 both.

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3765 ~~((3. Sprinklers are required in all occupancies requiring 2,000 gallons per minute~~
3766 ~~or more fire flow , or where the total floor area included within the surrounding exterior~~
3767 ~~walls on all floor levels including basements exceeds 10,000 square feet.))~~

3768 SECTION 195. Ordinance 12560, Section 174, as amended, and K.C.C.
3769 17.04.560 are hereby amended to read as follows:

3770 Section 903.2.11 of the International Fire Code is supplemented with the
3771 following:

3772 ~~((Residential units and accessory))~~ **Habitable space of structures built under**
3773 **the IRC (IFC 903.2.11.((7))8).** An automatic sprinkler system shall be installed in the
3774 habitable space of structures built under the International Residential Code (IRC) ((as
3775 follows)) when:

3776 1. ~~((The gross floor area exceeds 2,500 square (including attached garages)~~
3777 ~~without adequate fire flow except as cited in K.C.C. 17.08.030;~~

3778 2. ~~There is no approved fire department access as defined in the King County~~
3779 ~~road standards and IFC 503, as amended; or~~

3780 3. ~~If 2,000))~~ There is no approved fire access as defined in K.C.C. Title 14 and
3781 IFC 503;

3782 2. The structure has a total floor area, including basements, that exceed 10,000
3783 square feet; or:

3784 3. There is not:

3785 3.1 A minimum fire flow of 1,000 gallons per minute ~~((or more fire flow is~~
3786 ~~required or where the total floor area included within the surrounding exterior walls on all~~

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3787 floor levels including basements exceeds 10,000 square feet. For townhouses, each unit
3788 is considered a separate building)) as defined in IFC Appendix B; or

3789 3.2 A fire hydrant within 400 feet or 600 feet of the property line as outlined in
3790 IFC 507.5.1.

3791 **EXCEPTION**((S: ~~Attached decks, exterior porches and carports open on two~~
3792 ~~sides.~~

3793 ~~4. Where special hazards or unusual conditions exists in addition to the normal~~
3794 ~~hazard of the space due to the design, size, volume or use of the space, the Fire Marshal~~
3795 ~~is authorized to require additional safeguards suitable for the protection of the hazard or~~
3796 ~~condition involved. Additional safeguards can consist of automatic fire alarm system,~~
3797 ~~automatic sprinkler or water spray system, standpipe and hose, fixed or portable fire~~
3798 ~~extinguishers, or other special fire extinguishing systems. Where such systems are~~
3799 ~~provided, they shall be designed and installed in accordance with the International Fire~~
3800 ~~Code.))): Structures are located on lots that:~~

3801 1. Are sized 35,000 square feet or larger;

3802 2. Are outside the Urban Growth Area; and

3803 .3. Have a residential use as the primary land use.

3804 NEW SECTION. SECTION 196. There is hereby added to K.C.C. chapter 17.04
3805 a new section to read as follows:

3806 Section 903.2 of the International Fire Code is supplemented with the following:

3807 **Specific buildings areas and hazards - Buildings exceeding 10,000 square feet**

3808 **(IFC 903.2.13).** An automatic sprinkler system, installed in accordance with IFC 903.2,
3809 901.4.3 and 901.4.4 shall be provided throughout all buildings where the total floor area,

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3810 including basements, exceeds 10,000 square feet. For purposes of this section, portions
3811 of buildings separated by one or more fire walls shall not be considered a separate
3812 building.

3813 Existing buildings shall comply with this section when an addition is made to the
3814 building and the new total floor area, including basements, exceeds 10,000 square feet, or
3815 an existing building exceeding 10,000 square feet is substantially improved as defined in
3816 K.C.C. chapter 21A.06.

3817 NEW SECTION. SECTION 197. There is hereby added to K.C.C. chapter 17.04
3818 a new section to read as follows:

3819 Section 903.3.1 of the International Fire Code is not adopted and the following is
3820 substituted:

3821 **Installation requirements – standards (IFC 903.3.1).** Sprinkler systems shall
3822 be designed and installed in accordance with IFC 903.3.1.1, unless otherwise permitted
3823 by IFC 903.3.1.2, 903.3.1.3 and other chapters of this code, as applicable. In addition,
3824 sprinkler systems shall be designed with a buffer to account for water system fluctuations
3825 to include a low reservoir condition. Such buffer shall be five pounds per square inch
3826 (PSI) for static pressures less than 50 PSI and 10 PSI for static pressures above 50 PSI.
3827 Permit applicants shall independently verify site specific static pressure at the following
3828 intervals:

- 3829 1. Before initiating sprinkler system;
- 3830 2. Before installing sprinkler piping, including the underground supply; and
- 3831 3. Before requesting a cover inspection.

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3832 NEW SECTION. SECTION 198. There is hereby added to K.C.C. chapter 17.04
3833 a new section to read as follows:

3834 Section 903.4.3 of the International Fire Code is not adopted and the following is
3835 substituted:

3836 **Floor control valves (IFC 903.4.3).** Approved supervised indicating control
3837 valves shall be provided at the point of connection to the riser on each floor. The floor
3838 control valves shall be located within stair enclosures and within six feet of floors or
3839 landings unless chains or other approved devices are readily available.

3840 **EXCEPTION:** In buildings without stair enclosures, the location of the floor
3841 control valves shall be determined by the fire marshal.

3842 NEW SECTION. SECTION 199. There is hereby added to K.C.C. chapter 17.04
3843 a new section to read as follows:

3844 Section 903.5 of the International Fire Code is not adopted and the following is
3845 substituted:

3846 **Testing and maintenance (IFC 903.5).** Sprinkler systems shall be tested and
3847 maintained in accordance with IFC 901 and the following:

3848 1. Maintenance or testing discharges from a fire sprinkler system, standpipe or
3849 fire pump shall be treated to comply with the National Pollution Discharge Elimination
3850 System requirements.

3851 2. Water drained or otherwise discharged from a fire sprinkler system, standpipe
3852 or fire pump is considered an illicit discharge, and shall drain to the sanitary sewer or be
3853 treated prior to discharge to storm drains, ditches or water bodies.

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3854 NEW SECTION. SECTION 200. There is hereby added to K.C.C. chapter 17.04
3855 a new section to read as follows:

3856 Section 905.3.1 of the International Fire Code is not adopted and the following is
3857 substituted:

3858 **Height (IFC 905.3.1).** Class I standpipe systems shall be installed throughout
3859 buildings where any of the following conditions exist:

- 3860 1. Four or more stories are above or below grade plane.
3861 2. The floor level of the highest story is located more than 30 feet (9144 mm)
3862 above the lowest level of the fire apparatus access.
3863 3. The floor level of the lowest story is located more than 30 feet (9144 mm)
3864 below the highest level of fire apparatus access.

3865 **EXCEPTIONS:**

- 3866 1. Class II standpipes may be used for hose connections in open parking garages
3867 in accordance with IFC 905.5.
3868 2. In determining the lowest level of fire apparatus access, the following does not
3869 apply:
3870 2.1. Recessed loading docks for four vehicles or less.
3871 2.2. Conditions where topography makes access from the fire apparatus to the
3872 building impractical or impossible.

3873 SECTION 201. Ordinance 14111, Section 211, and K.C.C. 17.04.590 are hereby
3874 amended to read as follows:

3875 Section 912.2 of the International Fire Code is supplemented with the following:

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3876 **Distance (IFC 912.2.3).** Fire ~~((department pumper))~~ apparatus connections shall
 3877 not be located on a building unless approved by the ~~((F))~~fire ~~((M))~~marshal, and shall be
 3878 located within 50 feet of a required fire hydrant.

3879 SECTION 202. Ordinance 5828, Section 3, and K.C.C. 17.08.020 are hereby
 3880 amended to read as follows:

3881 A. Subdivisions and short subdivisions are required to be provided with water
 3882 mains, and fire hydrants meeting IFC Appendix C, consistent with county standards and
 3883 state ~~((d))~~Department of ~~((s))~~Social and ~~((h))~~Health ~~((s))~~Services principles of water
 3884 system design as a condition of final plat or short plat approval unless exempt ~~((pursuant~~
 3885 ~~to Section))~~ under K.C.C. 17.08.030.

3886 B. All structures or additions thereto erected ~~((pursuant to))~~ under a building
 3887 permit ~~((and/or mobile home permit))~~ shall be served by operational water mains and fire
 3888 hydrants consistent with county standards ~~((prior to))~~ before:

- 3889 1. the ~~((commencement))~~ start or installation of combustible construction; or
- 3890 2. ~~((prior to))~~ construction of a second floor if the building is noncombustible,
- 3891 whichever occurs first, unless exempt ~~((pursuant to Section))~~ under K.C.C. 17.08.030.

3892 C. Mobile home parks and recreational vehicle parks shall be required to provide
 3893 water mains and fire hydrants consistent with county standards as a condition of final site
 3894 plan approval.

3895 D. Permits or approvals for uses not involving a structure shall be served by
 3896 water mains and fire hydrants consistent with county standards.

3897 E. All new water mains and all additions and extensions to existing water mains
 3898 shall meet the requirements of this chapter~~((, provided that))~~ if water mains which serve

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3899 only uses exempt ~~((pursuant to Section))~~ under K.C.C. 17.08.030 are also exempt from
 3900 the requirements of this chapter.

3901 F. All water purveyor comprehensive plans approved ~~((pursuant to))~~ under
 3902 K.C.C. ~~((€))~~chapter 13.24 shall be consistent with ~~((the provisions of))~~ this chapter.

3903 G. All water mains and fire hydrants shall be served by a water district or water
 3904 purveyor in accordance with a current water comprehensive plan approved ~~((pursuant to))~~
 3905 under K.C.C. ~~((€))~~chapter 13.24, or by other adequate means providing service levels
 3906 consistent with the provisions of this ~~((€))~~chapter.

3907 SECTION 203. Ordinance 5828, Section 4, as amended, and K.C.C. 17.08.030
 3908 are hereby amended to read as follows:

3909 A. The following permits and approvals are exempt from the ~~((water))~~ fire flow
 3910 and fire hydrant requirements of this ~~((chapter))~~ title. These exemptions do not exempt any
 3911 development from compliance with the requirements of state law.

3912 1. Subdivisions and short subdivisions located outside ~~((an))~~ the Urban Growth
 3913 Area ~~((designated by the King County Comprehensive Plan))~~ and that do not contain a lot
 3914 less than thirty-five thousand square feet in size.

3915 2. Building permits for ~~((single family, duplex detached dwellings and mobile~~
 3916 ~~home permits for mobile homes not in mobile home parks,))~~ buildings with one or two
 3917 dwelling units located outside ~~((an))~~ the Urban Growth Area ~~((designated by the King~~
 3918 ~~County Comprehensive Plan))~~, only if the lot is at least thirty-five thousand square feet in
 3919 size.

3920 3. ~~((-))~~Building permits for structures classified as Group U occupancies under the
 3921 International Building Code that conform to the definition of agricultural buildings in

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3922 Appendix C of the International Building Code, only if the structures are located outside
3923 ~~((an))~~ the Urban Growth Area ~~((designated by the King County Comprehensive Plan))~~.

3924 4. Building permits for structures that are:

3925 a. ~~((do not exceed))~~ two-thousand-five hundred square feet in floor area,

3926 ~~((excluding garages,))~~ or less;

3927 b. ~~((are))~~ served by a Group B water system; and

3928 c. ~~((are))~~ located outside ~~((an))~~ the Urban Growth Area.

3929 5. Building permits for structures that ~~((exceed the))~~ are more than two-thousand-
3930 five hundred square feet ~~((limit provided for in subsection A.4.a. of this section, but~~
3931 ~~empty))~~ in floor area (excluding garages) and comply with subsection A.4.b. and c. of this
3932 section, shall be exempt ~~((from this chapter))~~ if the fire marshal determines that the project
3933 will not create a substantial fire hazard.

3934 B. The fire marshal shall have the authority to impose conditions including, but not
3935 limited to, increased setbacks, use of fire retardant materials or sprinkler system
3936 requirements on permits exempt under subsection A. of this section where necessary to
3937 mitigate identified fire hazards.

3938 C. Building permits ~~((and mobile home permits))~~ and subdivisions and short
3939 subdivisions exempt under subsection A. of this section shall, as a condition of approval,
3940 record a covenant running with the land which acknowledges the absence of fire hydrants
3941 and by which owners of the property and their successors are deemed to have agreed to
3942 participate in and not oppose or protest annexation to a public water district or the
3943 formation of a utility local improvement district for installation of water mains and fire
3944 hydrants consistent with applicable county standards. However, this condition shall not

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3945 apply (~~to any subdivision or short subdivision, or to any building permits and mobile home~~
3946 ~~permits exempt under subsection A. of this section~~) when the lot is five acres or larger, or
3947 the proposed subdivision, short subdivision or structure is located outside (~~an~~) the Urban
3948 Growth Area (~~designated by the King County comprehensive plan~~).

3949 SECTION 204. Ordinance 19276, Section 9, and K.C.C. 17.11.060 are hereby
3950 amended to read as follows:

3951 A. A violation of this chapter is a misdemeanor and is punishable as prescribed
3952 by law.

3953 B. Notwithstanding any criminal penalty provided in this chapter, a person who
3954 violates this chapter or chapter 70.77 RCW is subject to the maximum civil penalty in an
3955 amount not to exceed two hundred fifty dollars per violation. In addition, a person in
3956 violation of this chapter is responsible for any costs incurred to enforce this chapter,
3957 including bringing a civil action, court costs and reasonable attorneys' fees. All civil
3958 penalties assessed shall be enforced under K.C.C. Title 23.

3959 C. A person commits a separate offense for each day during (~~that~~) which the
3960 person commits, continues or permits a violation of this chapter.

3961 D. The civil and criminal penalties described in subsections A. through C. of this
3962 section shall not be enforced for violations of K.C.C. 17.11.040.B. as it pertains to the use
3963 or discharge of consumer fireworks, as defined in RCW 70.77.136, until one year after
3964 Ordinance 19276 takes effect under RCW 70.77.250. During the period in which these
3965 penalties are not being enforced, the King County sheriff's office and the fire marshal
3966 shall only issue warnings to violators of K.C.C. 17.11.040.B. and shall provide
3967 information to violators on the county's laws governing fireworks.

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3968 SECTION 205. Ordinance 12196, Section 11, as amended, and K.C.C. 20.20.040
3969 are hereby amended to read as follows:

3970 A. The department shall not (~~(commence)~~) begin review of any application (~~(as~~
3971 ~~provided in this chapter)~~) until the applicant has submitted the materials and fees
3972 specified for complete applications. Applications for land use permits requiring Type 1,
3973 2, 3 or 4 decisions shall be considered complete as of the date of submittal upon
3974 determination by the department that the materials submitted meet the requirements of
3975 this section. Except as provided in subsection B. of this section, all land use permit
3976 applications described in K.C.C. 20.20.020.E. shall include the following:

3977 1. An application form provided by the department and completed by the
3978 applicant that allows the applicant to file a single application form for all land use permits
3979 requested by the applicant for the development proposal at the time the application is
3980 filed;

3981 2. Designation of who the applicant is, except that this designation shall not be
3982 required as part of a complete application for purposes of this section when a public
3983 agency or public or private utility is applying for a permit for property on which the
3984 agency or utility does not own an easement or (~~(right-of-way)~~) right of way and the
3985 following three requirements are met:

3986 a. the name of the agency or private or public utility is shown on the
3987 application as the applicant;

3988 b. the agency or private or public utility includes in the complete application
3989 an affidavit declaring that notice of the pending application has been given to all owners
3990 of property to which the application applies, on a form provided by the department; and

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3991 c. the form designating who the applicant is submitted to the department before
3992 permit approval;

3993 3.a. A certificate of sewer availability or site design approval for an on-site
3994 sewage system by the Seattle-King County department of public health, as required by
3995 K.C.C. Title 13; or

3996 b. If allowed under K.C.C. 13.24.134.B. and the King County Comprehensive
3997 Plan policies for a public school located on a RA zoned site, a certificate of sewer
3998 availability and a letter from the sewer utility indicating compliance with the tightline
3999 sewer provisions in the zoning code, as required by K.C.C. chapter 13.24;

4000 4. If the development proposal requires a source of potable water, a current
4001 certificate of water availability consistent with K.C.C. chapter 13.24 or documentation of
4002 an approved well by (~~the Seattle-King County department of~~) public health - Seattle &
4003 King County;

4004 5. A fire district receipt (~~pursuant to~~) in accordance with K.C.C. Title 17, if
4005 required by K.C.C. chapter 21A.40;

4006 6. A site plan, prepared in a form prescribed by the director;

4007 7. Proof that the lot or lots to be developed are recognized as a lot under K.C.C.
4008 Title 19A;

4009 8. A critical areas affidavit, if required by K.C.C. chapter 21A.24;

4010 9. A completed environmental checklist, if required by K.C.C. chapter 20.44;

4011 10. Payment of any development permit review fees, excluding impact fees
4012 collectible (~~pursuant to~~) under K.C.C. Title 27;

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4013 11. A list of any permits or decisions applicable to the development proposal
4014 that have been obtained before filing the application or that are pending before the county
4015 or any other governmental entity;

4016 12. Certificate of transportation concurrency from the department of local
4017 services if required by K.C.C. chapter 14.70. The certificate of transportation
4018 concurrency may be for less than the total number of lots proposed by a preliminary plat
4019 application only if:

4020 a. at least seventy-five percent of the lots proposed have a certificate of
4021 transportation concurrency at the time of application for the preliminary plat;

4022 b. a certificate of transportation concurrency is provided for any remaining lots
4023 proposed for the preliminary plat application before the expiration of the preliminary plat
4024 and final recording of the additional lots; and

4025 c. the applicant signs a statement that the applicant assumes the risk that the
4026 remaining lots proposed might not be granted.

4027 13. Certificate of future connection from the appropriate purveyor for lots
4028 located within the ~~((u))~~Urban ~~((g))~~Growth ~~((a))~~Area that are proposed to be served by on-
4029 site or community sewage system and group B water systems or private well, if required
4030 by K.C.C. 13.24.136 through 13.24.140;

4031 14. A determination if drainage review applies to the project ~~((pursuant to))~~
4032 under K.C.C. chapter 9.04 and, if applicable, all drainage plans and documentation
4033 required by the Surface Water Design Manual adopted ~~((pursuant to))~~ under K.C.C.
4034 chapter 9.04 and to the extent known at the time of application and when determined
4035 necessary by the director, copies of any required storm water adjustments;

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4036 15. Current assessor's maps and a list of tax parcels to which public notice must
4037 be given (~~as provided~~) in accordance with this chapter, for land use permits requiring a
4038 Type 2, 3 or 4 decision;

4039 16. Legal description of the site;

4040 17. Variances obtained or required under K.C.C. Title 14 or 21A to the extent
4041 known at the date of application or when deemed necessary by the director; and

4042 18. For site development permits only, a phasing plan and a time schedule, if the
4043 site is intended to be developed in phases or if all building permits will not be submitted
4044 within three years.

4045 B. A permit application is complete for purposes of this section when it meets the
4046 procedural submission requirements of the department and is sufficient for continued
4047 processing even though additional information may be required or project modifications
4048 may be undertaken subsequently. The determination of completeness shall not preclude
4049 the department from requesting additional information or studies either at the time of
4050 notice of completeness or subsequently if new or additional information is required or
4051 substantial changes in the proposed action occur, as determined by the department.

4052 C. Additional complete application requirements for the following land use
4053 permits are in the following sections of the King County Code:

4054 1. Clearing and grading permits, K.C.C. 16.82.060(~~(-)~~);

4055 2. Construction permits, K.C.C. 16.04.052(~~(-)~~); and

4056 3. (~~Mobile home permits, K.C.C. 16.04.093.~~

4057 4.)) Subdivision applications, short subdivision applications and binding site
4058 plan applications, K.C.C. 19A.08.150.

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- 4059 D. The director may;
- 4060 1. Specify the requirements of the site plan required to be submitted for various
- 4061 permits;
- 4062 2. Require additional materials not listed in this section when determined to be
- 4063 necessary for review of the project; and
- 4064 3. Waive any of the specific submittal requirements listed (~~herein~~) of this
- 4065 section that are determined to be unnecessary for review of an application.
- 4066 E. The applicant shall attest by written oath to the accuracy of all information
- 4067 submitted for an application.
- 4068 F. Applications shall be accompanied by the payment of the applicable filing
- 4069 fees, if any, as established by K.C.C. Title 27.

4070 SECTION 206. Ordinance 4461, Section 2, as amended, and K.C.C. 20.22.040

4071 are hereby amended to read as follows:

4072 The examiner shall issue final decisions in the following cases:

- 4073 A. Appeals of orders of the ombuds under the lobbyist disclosure code, K.C.C.
- 4074 chapter 1.07;
- 4075 B. Appeals of sanctions of the finance and business operations division in the
- 4076 department of executive services imposed under K.C.C. chapter 2.97;
- 4077 C. Appeals of career service review committee conversion decisions for part-time
- 4078 and temporary employees under K.C.C. chapter 3.12A;
- 4079 D. Appeals of electric vehicle recharging station penalties of the Metro transit
- 4080 department under K.C.C. 4A.700.700;

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4081 E. Appeals of notice and orders of the manager of records and licensing services
4082 or the department of local services permitting division manager under K.C.C. chapter
4083 6.01;

4084 F. Appeals of adult entertainment license denials, suspensions and revocations
4085 under K.C.C. chapter 6.09;

4086 G. Appeals of the fire marshal's decisions on fireworks permits under K.C.C.
4087 chapter 17.11;

4088 H. Appeals of cable franchise nonrenewals under K.C.C. 6.27A.060 and notices
4089 and orders under K.C.C. 6.27A.240;

4090 I. Appeals of notices and orders of the department of natural resources and parks
4091 under K.C.C. chapter 7.09;

4092 J. Appeals of decisions of the director of the department of natural resources and
4093 parks on surface water drainage enforcement under K.C.C. chapter 9.04;

4094 K. Appeals of decisions of the director of the department of natural resources and
4095 parks on requests for rate adjustments to surface and storm water management rates and
4096 charges under K.C.C. chapter 9.08;

4097 L. Appeals of decisions on water quality enforcement under K.C.C. chapter 9.12;

4098 M. Appeals of notices and orders of the manager of animal control under K.C.C.
4099 chapter 11.04;

4100 N. Certifications by the finance and business operations division of the
4101 department of executive services involving K.C.C. chapter 12.16;

4102 O. Appeals of orders of the office of civil rights under K.C.C. chapter 12.17,
4103 K.C.C. chapter 12.18, K.C.C chapter 12.20 and K.C.C. chapter 12.22;

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- 4104 P. Appeals of noise-related orders and citations of the department of local
4105 services, permitting division, under K.C.C. chapter 12.86;
- 4106 Q. Appeals of utilities technical review committee determinations on water
4107 service availability under K.C.C. 13.24.090;
- 4108 R. Appeals of decisions regarding mitigation payment system, commute trip
4109 reduction and intersection standards under K.C.C. Title 14;
- 4110 S. Appeals of suspensions, revocations or limitations of plumbing permits (~~or of~~
4111 ~~decisions of the board of plumbing appeals~~) under K.C.C. chapter 16.32;
- 4112 T. Appeals from denials of C-PACER applications under K.C.C. chapter 18.19;
- 4113 U. Appeals of all Type 2 decisions under K.C.C. chapter 20.20, with the
4114 exception of appeals of shoreline permits, including shoreline substantial development
4115 permits, shoreline variances and shoreline conditional uses, which are appealable to the
4116 state Shoreline Hearings Board;
- 4117 V. Appeals of SEPA decisions, (~~as provided in~~) in accordance with K.C.C.
4118 20.44.120 and public rules adopted under K.C.C. 20.44.075;
- 4119 W. Appeals of completed farm management plans under K.C.C. 21A.30.045;
- 4120 X. Appeals of decisions of the interagency review committee created under
4121 K.C.C. 21A.37.070 regarding sending site applications for certification under K.C.C.
4122 chapter 21A.37;
- 4123 Y. Appeals of citations, notices and orders, notices of noncompliance, stop work
4124 orders issued (~~pursuant to~~) in accordance with K.C.C. Title 23 or Title 1.08 of the rules
4125 and regulations of the King County board of health;

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4126 Z. Appeals of notices and certifications of junk vehicles to be removed as a
4127 public nuisance ((as provided)) in accordance with K.C.C. Title 21A and K.C.C. chapter
4128 23.10;

4129 AA. Appeals of decisions not to issue a citation or a notice and order under
4130 K.C.C. 23.36.010.A.2;

4131 BB. Appeals of fee waiver decisions by the department of local services,
4132 permitting division, ((as provided)) in accordance with K.C.C. 27.02.040;

4133 CC. Appeals from decisions of the department of natural resources and parks
4134 related to permits, discharge authorizations, violations and penalties under K.C.C.
4135 28.84.050 and 28.84.060;

4136 DD. Appeals of transit rider suspensions under K.C.C. 28.96.430;

4137 EE. Appeals of department of public safety seizures and intended forfeitures,
4138 when properly designated by the chief law enforcement officer of the department of
4139 public safety ((as provided)) in accordance with RCW 69.50.505; and

4140 FF. Other applications or appeals that are prescribed by ordinance.

4141 SECTION 207. Ordinance 13129, Section 6, and K.C.C. 21A.27.060 are hereby
4142 amended to read as follows:

4143 The building permit shall become null and void if construction of the transmission
4144 support structure has not begun within one year after the effective date of permit approval
4145 or if antennas are not installed within one hundred eighty days after construction of the
4146 transmission support structure. Extensions shall be allowed only in accordance with the
4147 criteria specified for building permit extensions in K.C.C. ((16.04.05013)) 16.02.290.

4148 SECTION 208. Ordinance 10870, Section 523, as amended, and K.C.C.

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4149 21A.28.130 are hereby amended to read as follows:

4150 All new development shall be served by adequate fire protection as follows:

4151 A. The site of the development proposed is served by a water supply system that
4152 provides at least minimum fire flow and ~~((-))a((;-))~~ road system or ~~((-))~~fire lane system that
4153 provides life safety and rescue access, and other fire protection requirements for
4154 buildings as required by K.C.C. Titles 16 and 17;

4155 B. For a zone reclassification or ~~((U))~~urban planned development, the timing of
4156 installation of required fire protection improvements shall be stated in the approving
4157 ordinance as specified in K.C.C. 20.22.250, secured with a bond or similar security, and
4158 deposited with King County; and

4159 C. A variance request from the requirements established by K.C.C. Title 17, Fire
4160 Code, shall be reviewed ~~((as set forth))~~ in accordance with K.C.C. 17.08.090 ~~((or K.C.C.~~
4161 ~~17.10.040, and/))~~or ~~((in Article 2))~~ chapter 1 of the currently adopted edition of the
4162 International Fire Code and does not require a variance from this title unless relief is
4163 requested from a building height, setback, landscaping or other development standard
4164 ~~((set forth))~~ in K.C.C. chapters 21A.12 through 21A.30.

4165 SECTION 209. Ordinance 13332, Section 16, as amended, and K.C.C. 27.10.010
4166 are hereby amended to read as follows:

4167 Plan review fees shall compensate the department for the plan review necessary to
4168 determine compliance with approved plans, adopted international codes and other county
4169 regulations. The fees shall be collected to compensate the department for the review of:

4170 A. Commercial and residential building permit applications under K.C.C. chapters
4171 16.04, ~~((16.70, 16.74,))~~ 16.78 and 17.04 and K.C.C. Titles 20 and 21A;

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- 4172 B. Grading and clearing permit applications under K.C.C. chapter 16.82;
- 4173 C. Shoreline permit applications and exemptions under K.C.C. Title 25;
- 4174 D. State Environmental Policy Act compliance under K.C.C. chapter 20.44;
- 4175 E. Critical areas under K.C.C. chapter 21A.24;
- 4176 F. Preliminary and final subdivisions and short subdivisions under K.C.C. Title
- 4177 19A;
- 4178 G. Binding site plan review under K.C.C. Title 19A;
- 4179 H. Boundary line adjustments under K.C.C. Title 19A;
- 4180 I. Variance requests, conditional use permits, zone reclassification requests, special
- 4181 use permits and temporary use permits under K.C.C. Title 21A;
- 4182 J. Right of way use permits under K.C.C. Title 14; and
- 4183 K. Drainage review under K.C.C. Title 9.

4184 SECTION 210. Ordinance 13332, Section 39, as amended, and K.C.C. 27.10.310
4185 are hereby amended to read as follows:

4186 Construction and site development inspection fees shall compensate the department
4187 for inspections necessary to determine compliance with adopted international codes and
4188 other county regulations. The fees may be based on valuation as defined in this title, fixed
4189 or both based on valuation and fixed. Fees shall be collected for reinspections and
4190 supplemental inspections, as well as being collected to compensate the department for
4191 inspection of:

- 4192 A. Commercial and residential buildings, additions, and under K.C.C. chapters
- 4193 16.04(~~(,16.70,16.74)~~) and 16.78 and K.C.C. Titles 20 and 21A;
- 4194 B. Grading and clearing sites under K.C.C. chapter 16.82;

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4195 C. Site development, including roads and drainage and erosion control under
4196 K.C.C. Titles 9 and 14 and K.C.C. chapter 16.82;

4197 D. Shoreline permit approvals and exemptions under K.C.C. Title 25;

4198 E. State Environmental Policy Act condition compliance under K.C.C. chapter
4199 20.48;

4200 F. Zoning condition compliance under K.C.C. Title 21A; and

4201 G. Monitoring drainage and sensitive area conditions.

4202 SECTION 211. The following are each hereby repealed:

4203 A. Ordinance 10608, Section 3, as amended, and K.C.C. 16.02.130;

4204 B. Ordinance 14914, Section 13, as amended, and K.C.C. 16.02.180;

4205 C. Ordinance 12560, Section 14, as amended, and K.C.C. 16.02.380;

4206 D. Ordinance 12560, Section 9, as amended, and K.C.C. 16.02.560;

4207 E. Ordinance 17837, Section 40, and K.C.C. 16.03.165;

4208 F. Ordinance 14914, Section 114, and K.C.C. 16.03.220;

4209 G. Ordinance 15802, Section 21, and K.C.C. 16.04.305;

4210 H. Ordinance 14914, Section 144, as amended, and K.C.C. 16.04.320;

4211 I. Ordinance 14914, Section 151, as amended, and K.C.C. 16.04.340;

4212 J. Ordinance 15802, Section 23, and K.C.C. 16.04.342;

4213 K. Ordinance 15802, Section 31, as amended, and K.C.C. 16.04.455;

4214 L. Ordinance 14914, Section 167, as amended, and K.C.C. 16.04.470;

4215 M. Ordinance 15802, Section 33, as amended, and K.C.C. 16.04.472;

4216 N. Ordinance 15802, Section 34 and K.C.C. 16.04.475;

4217 O. Ordinance 15802, Section 35 and K.C.C. 16.04.478;

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- 4218 P. Ordinance 12560, Section 56, as amended, and K.C.C. 16.04.500;
- 4219 Q. Ordinance 14914, Section 177, and K.C.C. 16.04.510;
- 4220 R. Ordinance 15802, Section 36, and K.C.C. 16.04.515;
- 4221 S. Ordinance 14914, Section 178, as amended, and K.C.C. 16.04.520;
- 4222 T. Ordinance 14914, Section 179, and K.C.C. 16.04.530;
- 4223 U. Ordinance 14914, Section 185, and K.C.C. 16.04.540;
- 4224 V. Ordinance 15802, Section 38, and K.C.C. 16.04.545;
- 4225 W. Ordinance 12560, Section 71, as amended, and K.C.C. 16.04.590;
- 4226 X. Ordinance 12560, Section 76, as amended, and K.C.C. 16.04.640;
- 4227 Y. Ordinance 12560, Section 77, as amended, and K.C.C. 16.04.650;
- 4228 Z. Ordinance 12560, Section 78, as amended, and K.C.C. 16.04.660;
- 4229 AA. Ordinance 12560, Section 79, as amended, and K.C.C. 16.04.670;
- 4230 BB. Ordinance 12560, Section 80, as amended, and K.C.C. 16.04.680;
- 4231 CC. Ordinance 12560, Section 81, as amended, and K.C.C. 16.04.690;
- 4232 DD. Ordinance 12560, Section 82, as amended, and K.C.C. 16.04.700;
- 4233 EE. Ordinance 12560, Section 99, as amended, and K.C.C. 16.04.870;
- 4234 FF. Ordinance 11622, Section 2, as amended, and K.C.C. 16.04.880;
- 4235 GG. Ordinance 3647, Section 8, and K.C.C. 16.04.910;
- 4236 HH. Ordinance 14914, Section 269, as amended, and K.C.C. 16.05.010;
- 4237 II. Ordinance 14914, Section 270, and K.C.C. 16.05.020;
- 4238 JJ. Ordinance 14914, Section 271, as amended, and K.C.C. 16.05.030;
- 4239 KK. Ordinance 14914, Section 273, as amended, and K.C.C. 16.05.050;
- 4240 LL. Ordinance 14914, Section 277, as amended, and K.C.C. 16.05.090;

Ordinance 19485

- 4241 MM. Ordinance 15802, Section 84, and K.C.C. 16.05.102;
- 4242 NN. Ordinance 15802, Section 86, and K.C.C. 16.05.104;
- 4243 OO. Ordinance 11797, Section 2, as amended, and K.C.C. 16.05.106;
- 4244 PP. Ordinance 2910, Section 4 (part), as amended, and K.C.C. 16.05.108;
- 4245 QQ. Ordinance 12560, Section 57, as amended, and K.C.C. 16.05.110;
- 4246 RR. Ordinance 11797, Section 1, as amended, and K.C.C. 16.05.120;
- 4247 SS. Ordinance 15802, Section 93, as amended, and K.C.C. 16.05.124;
- 4248 TT. Ordinance 11797, Section 3, as amended, and K.C.C. 16.05.127;
- 4249 UU. Ordinance 14238, Section 18, as amended, and K.C.C. 16.06.010;
- 4250 VV. Ordinance 14238, Section 19, as amended, and K.C.C. 16.06.020;
- 4251 WW. Ordinance 14238, Section 21, as amended, and K.C.C. 16.06.030;
- 4252 XX. Ordinance 14914, Section 288, as amended, and K.C.C. 16.06.031;
- 4253 YY. Ordinance 14914, Section 289, as amended, and K.C.C. 16.06.032;
- 4254 ZZ. Ordinance 14914, Section 290, as amended, and K.C.C. 16.06.033;
- 4255 AAA. Ordinance 14914, Section 291, as amended, and K.C.C. 16.06.034;
- 4256 BBB. Ordinance 14914, Section 292, as amended, and K.C.C. 16.06.035;
- 4257 CCC. Ordinance 14914, Section 293, and K.C.C. 16.06.036;
- 4258 DDD. Ordinance 14914, Section 294, and K.C.C. 16.06.037;
- 4259 EEE. Ordinance 14914, Section 295, and K.C.C. 16.06.038;
- 4260 FFF. Ordinance 14238, Section 21, as amended, and K.C.C. 16.06.040;
- 4261 GGG. Ordinance 14238, Section 22, as amended, and K.C.C. 16.06.050;
- 4262 HHH. Ordinance 14238, Section 23, as amended, and K.C.C. 16.06.060;
- 4263 III. Ordinance 14238, Section 24, as amended, and K.C.C. 16.06.070;

Ordinance 19485

- 4264 JJJ. Ordinance 14238, Section 25, as amended, and K.C.C. 16.06.080;
- 4265 KKK. Ordinance 14111, Section 118, as amended, and K.C.C. 16.12.010;
- 4266 LLL. Ordinance 15802, Section 103, and K.C.C. 16.12.012;
- 4267 MMM. Ordinance 14111, Section 129, and K.C.C. 16.14.010;
- 4268 NNN. Ordinance 14914, Section 340, and K.C.C. 16.14.070;
- 4269 OOO. Ordinance 14914, Section 341, and K.C.C. 16.14.080;
- 4270 PPP. Ordinance 12560, Section 116, as amended, and K.C.C. 16.14.120
- 4271 QQQ. Ordinance 12560, Section 118, as amended, and K.C.C. 16.14.130;
- 4272 RRR. Ordinance 14914, Section 354, and K.C.C. 16.14.160;
- 4273 SSS. Ordinance 14914, Section 355, and K.C.C. 16.14.170;
- 4274 TTT. Ordinance 12560, Section 119, as amended, and K.C.C. 16.14.180;
- 4275 UUU. Ordinance 14914, Section 358, and K.C.C. 16.14.190;
- 4276 VVV. Ordinance 12560, Section 136, as amended, and K.C.C. 16.14.230;
- 4277 WWW. Ordinance 12560, Section 137, as amended, and K.C.C. 16.14.240;
- 4278 XXX. Ordinance 14914, Section 368, and K.C.C. 16.14.260;
- 4279 YYY. Ordinance 14914, Section 369, and K.C.C. 16.14.270;
- 4280 ZZZ. Ordinance 14238, Section 5, as amended, and K.C.C. 16.14.300;
- 4281 AAAA. Ordinance 14238, Section 6, as amended, and K.C.C. 16.14.310;
- 4282 BBBB. Ordinance 14238, Section 7, as amended, and K.C.C. 16.14.320;
- 4283 CCCC. Ordinance 15802, Section 106, as amended, and K.C.C. 16.14.321;
- 4284 DDDD. Ordinance 14238, Section 8, as amended, and K.C.C. 16.14.330;
- 4285 EEEE. Ordinance 14238, Section 9, as amended, and K.C.C. 16.14.340;
- 4286 FFFF. Ordinance 14238, Section 10, as amended, and K.C.C. 16.14.350;

Ordinance 19485

- 4287 GGGG. Ordinance 14238, Section 11, as amended, and K.C.C. 16.14.360;
- 4288 HHHH. Ordinance 15802, Section 109, and K.C.C. 16.14.365;
- 4289 IIII. Ordinance 15802, Section 110, and K.C.C. 16.14.366;
- 4290 JJJJ. Ordinance 14238, Section 12, as amended, and K.C.C. 16.14.370;
- 4291 KKKK. Ordinance 14238, Section 13, as amended, and K.C.C. 16.14.380;
- 4292 LLLL. Ordinance 15802, Section 113, and K.C.C. 16.14.385;
- 4293 MMMM. Ordinance 14238, Section 14, as amended, and K.C.C. 16.14.390;
- 4294 NNNN. Ordinance 14238, Section 15, as amended, and K.C.C. 16.14.400;
- 4295 OOOO. Ordinance 14914, Section 396, and K.C.C. 16.14.420;
- 4296 PPPP. Ordinance 14914, Section 399, and K.C.C. 16.14.440;
- 4297 QQQQ. Ordinance 14914, Section 417, and K.C.C. 16.14.560;
- 4298 RRRR. Ordinance 8330, Section 34, as amended, and K.C.C. 16.32.085;
- 4299 SSSS. Ordinance 6746, Section 19, KCC 16.32.170;
- 4300 TTTT. Ordinance 15802, Section 120, and K.C.C. 16.32.175;
- 4301 UUUU. Ordinance 15802, Section 121, and K.C.C. 16.32.185;
- 4302 VVVV. Ordinance 15802, Section 125, and K.C.C. 16.32.225;
- 4303 WWWW. Ordinance 15802, Section 127, and K.C.C. 16.32.245;
- 4304 XXXX. Ordinance 15802, Section 129, and K.C.C. 16.32.265;
- 4305 YYYYY. Ordinance 15802, Section 134, as amended, and K.C.C. 16.32.315;
- 4306 ZZZZ. Ordinance 15802, Section 135, and K.C.C. 16.32.326;
- 4307 AAAAA. Ordinance 15802, Section 136, and K.C.C. 16.32.335;
- 4308 BBBBB. Ordinance 12560, Section 151, as amended, and K.C.C. 17.04.270;
- 4309 CCCCC. Ordinance 12560, Section 150, as amended, and K.C.C. 17.04.300;

Ordinance 19485

- 4310 DDDDD. Ordinance 12560, Section 158, as amended, and K.C.C. 17.04.340;
- 4311 EEEEE. Ordinance 12560, Section 159, as amended, and K.C.C. 17.04.350;
- 4312 FFFFF. Ordinance 12560, Section 162, as amended, and K.C.C. 17.04.360;
- 4313 GGGGG. Ordinance 14111, Section 201, as amended, and K.C.C. 17.04.430;
- 4314 HHHHH. Ordinance 12560, Section 170, as amended, and K.C.C. 17.04.440;
- 4315 IIIII. Ordinance 14111, Section 202, as amended, and K.C.C. 17.04.460;
- 4316 JJJJJ. Ordinance 14111, Section 203, as amended, and K.C.C. 17.04.470;
- 4317 KKKKK. Ordinance 14111, Section 205, as amended, and K.C.C. 17.04.480;
- 4318 LLLLL. Ordinance 14111, Section 213, as amended, and K.C.C. 17.04.490;
- 4319 MMMMM. Ordinance 14111, Section 206, as amended, and K.C.C. 17.04.500;
- 4320 NNNNN. Ordinance 14111, Section 210, as amended, and K.C.C. 17.04.510;
- 4321 OOOOO. Ordinance 15803, Section 26, as amended, and K.C.C. 17.04.522;
- 4322 PPPPP. Ordinance 6328, Section 4, as amended, and K.C.C. 17.04.530;
- 4323 QQQQQ. Ordinance 14915, Section 79, as amended, and K.C.C. 17.04.550;
- 4324 RRRRR. Ordinance 17837, Section 82, and K.C.C. 17.04.565;
- 4325 SSSSS. Ordinance 14111, Section 220, as amended, and K.C.C. 17.04.570;
- 4326 TTTTT. Ordinance 12560, Section 175, as amended, and K.C.C. 17.04.580;
- 4327 UUUUU. Ordinance 15803, Section 8, as amended, and K.C.C. 17.04.583;
- 4328 VVVVV. Ordinance 14238, Section 29, as amended, and K.C.C. 17.04.600;
- 4329 WWWW. Ordinance 14238, Section 30, as amended, and K.C.C. 17.04.610;
- 4330 XXXXX. Ordinance 14238, Section 31, as amended, and K.C.C. 17.04.620;
- 4331 YYYYY. Ordinance 8726, Section 1, as amended, and K.C.C. 17.04.630;
- 4332 ZZZZZ. Ordinance 5828, Section 2, and K.C.C. 17.08.010;

Ordinance 19485

- 4333 AAAAAA. Ordinance 5828, Section 5, as amended, and K.C.C. 17.08.040;
- 4334 BBBBBB. Ordinance 5828, Section 6, and K.C.C. 17.08.050;
- 4335 CCCCCC. Ordinance 5828, Section 7, and K.C.C. 17.08.060;
- 4336 DDDDDD. Ordinance 5828, Section 8, and K.C.C. 17.08.070;
- 4337 EEEEEE. Ordinance 5828, Section 9, and K.C.C. 17.08.080;
- 4338 FFFFFF. Ordinance 3087, Section 10, and K.C.C. 17.08.110;
- 4339 GGGGGG. Ordinance 3087, Section 11, and K.C.C. 17.08.120;
- 4340 HHHHHH. Ordinance 5828, Section 14, and K.C.C. 17.08.150; and
- 4341 IIIIII. Ordinance 7080, Section 2, and K.C.C. 17.08.160.
- 4342 SECTION 212. This ordinance takes effect January 1, 2023.
- 4343 SECTION 213. **Severability.** If any provision of this ordinance or its application

Ordinance 19485

4344 to any person or circumstance is held invalid, the remainder of the ordinance or the
4345 application of the provision to other persons or circumstances is not affected.

Ordinance 19485 was introduced on 9/21/2021 and passed as amended by the Metropolitan King County Council on 8/23/2022, by the following vote:

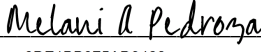
Yes: 9 - Balducci, Dembowski, Dunn, Kohl-Welles, Perry, McDermott, Upthegrove, von Reichbauer and Zahilay

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

DocuSigned by:

7E1C273CE9994B6...
Claudia Balducci, Chair

ATTEST:

DocuSigned by:

8DE1BB375AD3422...
Melani Pedroza, Clerk of the Council

APPROVED this _____ day of 9/2/2022, _____.

DocuSigned by:

4FBCAB8196AE4C6...
Dow Constantine, County Executive

Attachments: None

Certificate Of Completion

Envelope Id: 742A0EAB98A8462AB43A18195EFCB139
 Subject: Please DocuSign: Ordinance 19485.docx
 Source Envelope:
 Document Pages: 206
 Certificate Pages: 5
 AutoNav: Enabled
 Envelope Stamping: Enabled
 Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Status: Completed
 Envelope Originator:
 Cherie Camp
 401 5th Ave
 Suite 100
 Seattle, WA 98104
 Cherie.Camp@kingcounty.gov
 IP Address: 198.49.222.20


Record Tracking

Status: Original 8/24/2022 4:14:39 PM	Holder: Cherie Camp Cherie.Camp@kingcounty.gov	Location: DocuSign
Security Appliance Status: Connected	Pool: FedRamp	
Storage Appliance Status: Connected	Pool: King County General (ITD)	Location: DocuSign

Signer Events

Claudia Balducci
 claudia.balducci@kingcounty.gov
 Council Chair
 King County General (ITD)
 Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:

 7E1C273CE9994B6...
 Signature Adoption: Pre-selected Style
 Using IP Address: 107.122.81.118
 Signed using mobile

Timestamp

Sent: 8/24/2022 4:16:53 PM
 Viewed: 8/25/2022 2:59:03 PM
 Signed: 8/25/2022 2:59:41 PM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

Melani A Pedroza
 melani.pedroza@kingcounty.gov
 Clerk of the Council
 King County Council
 Security Level: Email, Account Authentication (None)

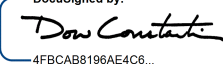
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 Signature Adoption: Pre-selected Style
 Using IP Address: 198.49.222.20

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 Viewed: 8/25/2022 3:03:31 PM
 Signed: 8/25/2022 3:03:42 PM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

Dow Constantine
 Dow.Constantine@kingcounty.gov
 Security Level: Email, Account Authentication (None)

DocuSigned by:

 4FBCAB8196AE4C6...
 Signature Adoption: Uploaded Signature Image
 Using IP Address: 24.113.57.165

Sent: 8/25/2022 3:03:47 PM
 Viewed: 9/2/2022 11:27:50 AM
 Signed: 9/2/2022 11:28:07 AM

Electronic Record and Signature Disclosure:
 Accepted: 9/2/2022 11:27:50 AM
 ID: 58fc2478-9aa1-45dd-ab50-2a7b5a037385

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp
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Carbon Copy Events	Status	Timestamp
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Kaitlyn Wiggins kwwiggins@kingcounty.gov Executive Legislative Coordinator King County Executive Office Security Level: Email, Account Authentication (None) Electronic Record and Signature Disclosure: Not Offered via DocuSign	<div style="border: 2px solid blue; padding: 5px; display: inline-block;">COPIED</div>	Sent: 8/25/2022 3:03:47 PM Viewed: 8/25/2022 3:14:40 PM
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Envelope Sent	Hashed/Encrypted	8/24/2022 4:16:53 PM
Certified Delivered	Security Checked	9/2/2022 11:27:50 AM
Signing Complete	Security Checked	9/2/2022 11:28:07 AM
Completed	Security Checked	9/2/2022 11:28:07 AM

Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure
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From time to time, Carahsoft OBO King County ITD (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign, Inc. (DocuSign) electronic signing system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to these terms and conditions, please confirm your agreement by clicking the 'I agree' button at the bottom of this document.

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If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. To indicate to us that you are changing your mind, you must withdraw your consent using the DocuSign 'Withdraw Consent' form on the signing page of a DocuSign envelope instead of signing it. This will indicate to us that you have withdrawn your consent to receive required notices and disclosures electronically from us and you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact Carahsoft OBO King County ITD:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: bob.johnson@kingcounty.gov

To advise Carahsoft OBO King County ITD of your new e-mail address

To let us know of a change in your e-mail address where we should send notices and disclosures electronically to you, you must send an email message to us at bob.johnson@kingcounty.gov and in the body of such request you must state: your previous e-mail address, your new e-mail address. We do not require any other information from you to change your email address..

In addition, you must notify DocuSign, Inc. to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in the DocuSign system.

To request paper copies from Carahsoft OBO King County ITD

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an e-mail to bob.johnson@kingcounty.gov and in the body of such request you must state your e-mail address, full name, US Postal address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with Carahsoft OBO King County ITD

To inform us that you no longer want to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your DocuSign session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an e-mail to bob.johnson@kingcounty.gov and in the body of such request you must state your e-mail, full name, US Postal Address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

Operating Systems:	Windows® 2000, Windows® XP, Windows Vista®; Mac OS® X
Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari™ 3.0 or above (Mac only)
PDF Reader:	Acrobat® or similar software may be required to view and print PDF files
Screen Resolution:	800 x 600 minimum

Enabled Security Settings:	Allow per session cookies
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** These minimum requirements are subject to change. If these requirements change, you will be asked to re-accept the disclosure. Pre-release (e.g. beta) versions of operating systems and browsers are not supported.

Acknowledging your access and consent to receive materials electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please verify that you were able to read this electronic disclosure and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this disclosure and consent to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on the terms and conditions described above, please let us know by clicking the 'I agree' button below.

By checking the 'I agree' box, I confirm that:

- I can access and read this Electronic CONSENT TO ELECTRONIC RECEIPT OF ELECTRONIC RECORD AND SIGNATURE DISCLOSURES document; and
- I can print on paper the disclosure or save or send the disclosure to a place where I can print it, for future reference and access; and
- Until or unless I notify Carahsoft OBO King County ITD as described above, I consent to receive from exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to me by Carahsoft OBO King County ITD during the course of my relationship with you.