

ORDINANCE O-4848

AN ORDINANCE OF THE CITY OF KIRKLAND RELATING TO THE CITY'S BUILDING AND CONSTRUCTION CODES AND AMENDING TITLE 21 OF THE KIRKLAND MUNICIPAL CODE.

1 WHEREAS, the City Council of the City of Kirkland has adopted
2 by reference numerous building codes for the health, safety, and welfare
3 of its residents as set forth in Title 21 of the Kirkland Municipal Code;
4 and

5
6 WHEREAS, the State of Washington established the State
7 Building Code as set forth in RCW 19.27.031; and

8
9 WHEREAS, a new version of the State Building Code will go into
10 effect on March 15, 2024; and

11
12 WHEREAS, adoption of the amendments made within Title 21
13 KMC, entitled "Buildings and Construction," conforms to SEPA
14 requirements set forth in WAC 167-800-19; and

15
16 WHEREAS, the City Council wishes to provide consistency in
17 the administration of the construction codes; and

18
19 WHEREAS, the City Council wishes to provide standards for the
20 maintenance of buildings and property within the City to protect the
21 public health, safety, and welfare.

22
23 NOW, THEREFORE, the City Council of the City of Kirkland do
24 ordain as follows:

25
26 Section 1. Section 21.06.020 of the Kirkland Municipal Code
27 (KMC) is amended to read as follows, with new text shown in underline
28 and deleted text shown in ~~strikethrough~~:

29
30 **21.06.020 Scope and General Requirements.**

31
32 (a) This chapter establishes the administrative, organizational and
33 enforcement rules and regulations for the technical codes which
34 regulate site preparation and construction, alteration, moving,
35 demolition, repair, use and occupancy of buildings, structures and
36 building service equipment within the corporate limits of the city. The
37 provisions of this chapter shall apply to the administration of the
38 following technical codes:

39 (1) ~~2018~~ 2021 International Building Code—Chapter 51-50
40 WAC;

41 (2) ~~2018~~ 2021 International Residential Code—Chapter 51-51
42 WAC;

43 (3) ~~2018~~ 2021 International Mechanical Code—Chapter 51-52
44 WAC;

45 (4) ~~2018~~ 2021 National Fuel Gas Code (NFPA 54)—Chapter 51-
46 52 WAC;

47 (5) Kirkland Electrical Code;

48 (6) ~~2017~~ 2020 Liquefied Petroleum Gas Code (NFPA 58)—
49 Chapter 51-52 WAC;

50 (7) ~~2018~~ 2021 International Fuel Gas Code—Chapter 51-52
51 WAC;

52 (8) ~~2018~~ 2021 Uniform Plumbing Code—Chapters 51-56 and
53 51-57 WAC;

54 (9) ~~2018~~ 2021 Washington State Energy Code, Commercial and
55 Residential Provisions—Chapters 51-11C and 51-11R WAC;

56 (10) ~~2018~~ 2021 International Existing Building Code—WAC 51-
57 50-48000;

58 (11) 2021 International Wildland-Urban Interface Code –
59 Chapter 51-55 WAC; and

60 (4-12) 2018 International Swimming Pool and Spa Code—WAC
61 51-50-3109 and 51-51-0329.

62
63 Section 2. KMC 21.06.030 is amended to read as follows:
64

65 **21.06.030 Appendices.**
66

67 Provisions in the appendices of the technical codes shall not apply
68 unless specifically ~~adopted~~ referenced in the adopting ordinance. An
69 appendix adopted by a local jurisdiction that affects single-family or
70 multifamily residential buildings as defined in RCW 19.27.015 shall not
71 be effective unless approved by the state building code council pursuant
72 to RCW 19.27.060(1)(a).

73 Exceptions:

74 (1) The state building code council has determined that a local
75 ordinance providing specifications for light straw-clay or
76 strawbale construction, or requiring a solar-ready zone, or
77 requiring fire sprinklers in accordance with Appendix AR, AS, or
78 V of this chapter may be adopted by any local government upon
79 notification of the council.

80 (2) Appendix AF, Radon Control Methods, Appendix AQ, Tiny
81 Homes, and Appendix U, Dwelling Unit Fire Sprinkler Systems,
82 are included in adoption of the International Residential Code.

83 Section 3. KMC 21.06.035 is amended to read as follows:

84

85 **21.06.035 Intent.**

86

87 The purpose of this chapter and the technical codes is to establish the
88 minimum requirements to safeguard the public health, safety and
89 general welfare through affordability, structural strength, means of
90 egress facilities, stability, sanitation, ~~adequate~~ light and ventilation,
91 energy conservation, and ~~safety to life and property from fire for~~
92 providing a reasonable level of life safety and property protection from
93 fire, explosion and other hazards or other dangerous conditions and to
94 provide a reasonable level of safety to firefighters and emergency
95 responders during emergency operations.

96

97 Section 4. KMC 21.06.050 is amended to read as follows:

98

99 **21.06.050 International Residential Code—Scope.**

100

101 The provisions of the International Residential Code for One- and Two-
102 Family Dwellings shall apply to the construction, alteration, movement,
103 enlargement, replacement, repair, equipment, use and occupancy,
104 location, maintenance, removal, and demolition of detached one- and
105 two-family dwellings, adult family homes, and townhouses not more
106 than three stories in height with separate means of egress and their
107 accessory structures not more than three stories above grade plane in
108 height.

109 Exceptions:

110 (1) Live/work units located in townhouses and complying with
111 the requirements of Section ~~419.508.5~~ of the International
112 Building Code shall be permitted to be constructed in
113 accordance with the International Residential Code for One- and
114 Two-Family Dwellings. ~~Fire suppression~~ An automatic sprinkler
115 system required by Section ~~419.508.7~~ of the International
116 Building Code where constructed under the International
117 Residential Code for One- and Two-Family Dwellings shall
118 conform to Appendix U.

119 (2) Owner-occupied lodging houses with one or two guestrooms
120 shall be permitted to be constructed in accordance with the
121 International Residential Code for One- and Two-Family
122 Dwellings.

123 (3) Owner-occupied lodging homes with three to five
124 guestrooms shall be permitted to be constructed in accordance
125 with the International Residential Code for One- and Two-Family
126 Dwellings where equipped with a fire sprinkler system in
127 accordance with Appendix U.

128 (4) A care facility with five or fewer persons receiving custodial
129 care within a dwelling unit shall be permitted to be constructed

130 in accordance with the International Residential Code for One-
 131 and Two-Family Dwellings where equipped with an automatic
 132 fire sprinkler system in accordance with Appendix U.

133 (5) A care facility with five or fewer persons receiving medical
 134 care within a dwelling unit shall be permitted to be constructed
 135 in accordance with the International Residential Code for One-
 136 and Two-Family Dwellings where equipped with an automatic
 137 fire sprinkler system in accordance with Appendix U.

138 (6) A care facility with five or fewer persons receiving care that
 139 are within a single-family dwelling shall be permitted to be
 140 constructed in accordance with the International Residential
 141 Code for One- and Two-Family Dwellings where equipped with
 142 an automatic fire sprinkler system in accordance with Appendix
 143 U.

144
 145 Section 5. KMC 21.06.075 is amended to read as follows:
 146

147 **21.06.075 Energy—Scope.**
 148

149 The provisions of the Washington State Energy Code shall apply to all
 150 matters governing the design and construction of buildings for energy
 151 efficiency. ~~References in the commercial energy code to Group R shall~~
 152 ~~include Group I-1, Condition 2 assisted living facilities licensed by~~
 153 ~~Washington State under Chapter 388-78A WAC and Group I-1,~~
 154 ~~Condition 2 residential treatment facilities licensed by Washington State~~
 155 ~~under Chapter 246-337 WAC. The WSEC Residential WAC Chapter 51-~~
 156 ~~11R applies to residential buildings, building sites, associated systems~~
 157 ~~and equipment, and the WSEC Commercial WAC Chapter 51-11C~~
 158 ~~applies to commercial buildings, building sites, associated systems and~~
 159 ~~equipment. Residential sleeping units, Group I-1, Condition 2 assisted~~
 160 ~~living facilities licensed by Washington state under chapter 388-78A~~
 161 ~~WAC and Group I-1, Condition 2 residential treatment facilities licensed~~
 162 ~~by Washington state under chapter 246-337 WAC shall utilize the~~
 163 ~~commercial building sections of the energy code regardless of the~~
 164 ~~number of stories of height above grade plane. Building areas that~~
 165 ~~contain Group R sleeping units, regardless of the number of stories in~~
 166 ~~height, are required to comply with the commercial sections of the~~
 167 ~~energy code. Where a building includes both residential building and~~
 168 ~~commercial building portions, each portion shall be separately~~
 169 ~~considered and meet the applicable provisions of the WSEC -~~
 170 ~~Commercial or WSEC - Residential Provisions.~~

171
 172 Section 6. KMC 21.06.076 is amended to read as follows:
 173

174 **21.06.076 Existing structures—Scope.**
 175

176 The provisions of the International Existing Building Code shall apply to
 177 matters governing the repair, alteration, change of occupancy, addition
 178 to and relocation of existing structures. Provided, that the Washington
 179 State Energy Code and the International Wildland-Urban Interface Code
 180 shall be regulated by their respective provisions for existing buildings.

181 Provided, that work regulated by this code is also regulated by the
 182 construction requirements for existing buildings within Chapter 11 of the
 183 International Fire Code, and such work shall comply with applicable
 184 requirements in both codes.

185 Exception:

186
 187 (1) Detached one- and two-family dwellings and ~~multiple single-~~
 188 ~~family dwellings (townhouses)~~ townhouses not more than three
 189 stories above grade plane in height with a separate means of
 190 egress, and their accessory structures not more than three
 191 stories above grade plane in height, shall comply with this code
 192 or the International Residential Code.

193
 194 Section 7. A new section shall be added to chapter 21.06 KMC,
 195 to be codified as KMC 21.06.080, to read as follows:

196
 197 **21.06.080 International Wildland-Urban Interface Code —**
 198 **Scope.**

199
 200 The provisions of this code shall apply to the construction, alteration,
 201 movement, repair, maintenance, and use of any building, structure, or
 202 premises within the wildland-urban interface areas in this jurisdiction.

203
 204 Section 8. KMC 21.06.090 is amended to read as follows:

205
 206 **21.06.090 Applicability.**

207
 208 (a) General. Where, in any specific case, different sections of this
 209 chapter specify different materials, methods of construction or other
 210 requirements, the most restrictive shall govern except that the hierarchy
 211 of the codes named in Chapter 19.27 RCW shall govern. Where there
 212 is a conflict between a general requirement and a specific requirement,
 213 the specific requirement shall be applicable.

214 (b) New Installations. This chapter applies to new installations.

215 Exception:

216 (1) If an electrical, plumbing or mechanical permit application is
 217 received after this chapter has taken effect, but is associated
 218 with a building permit application received prior to the effective
 219 date of the ordinance codified in this chapter, all applicable
 220 codes adopted and in force at the time of a complete building
 221 permit application will apply.

222 (c) Existing Installations. Lawfully installed existing installations that do
 223 not comply with the provisions of this chapter shall be permitted to be
 224 continued without change, except as is specifically covered in this
 225 chapter, the International Fire Code or as is deemed necessary by the
 226 building official for the general safety and welfare of the occupants and
 227 the public. Where changes are required for correction of hazards, a

228 reasonable amount of time shall be given for compliance, depending on
229 the degree of the hazard.

230 (d) Maintenance. Buildings and structures, including their electrical,
231 plumbing and mechanical systems, equipment, materials and
232 appurtenances, both existing and new, and parts thereof shall be
233 maintained in proper operating condition in accordance with the original
234 design and in a safe, hazard-free condition. Devices or safeguards that
235 are required by this chapter shall be maintained in compliance with the
236 code edition under which installed. The owner or the owner's designated
237 agent shall be responsible for the maintenance of the systems and
238 equipment. To determine compliance with this provision, the code
239 official shall have the authority to require that the systems and
240 equipment be reinspected.

241 (e) Additions, Alterations, Modifications or Repairs for other than IRC
242 buildings. Additions, alterations, modifications or repairs to a building or
243 structure or to the electrical, plumbing or mechanical system(s) of any
244 building, structure, or premises shall conform to the requirements of this
245 chapter without requiring those portions of the existing building or
246 system not being altered or modified to comply with all the requirements
247 of this chapter. Installations, additions, alterations, modifications, or
248 repairs shall not cause an existing building to become unsafe or to
249 adversely affect the performance of the building as determined by the
250 building official or designated representative. Electrical wiring added to
251 an existing service, feeder, or branch circuit shall not result in an
252 installation that violates the provisions of the code in force at the time
253 the additions were made.

254 (f) Additions, alterations, change of use, repairs, or relocations to IRC
255 buildings. Additions, alterations, repairs, or relocations shall be
256 permitted to conform to the requirements of the provisions of IRC
257 Chapter 45 or shall conform to the requirements for a new structure
258 without requiring the existing structure to comply with the requirements
259 of this code, unless otherwise stated. Additions, alterations, repairs, and
260 relocations shall not cause an existing structure to become less
261 compliant with the provisions of this code than the existing building or
262 structure was prior to the addition, alteration, repair, or relocation.
263 Where additions, alterations, or changes of use to an existing structure
264 result in a use or occupancy, height, or means of egress outside the
265 scope of this code, the building shall comply with the International
266 Existing Building Code.

267
268 Section 9. KMC 21.06.120 is amended to read as follows:
269

270 **21.06.120 Creation of enforcement agency.**
271

272 The planning and building department shall ~~be responsible for~~ is hereby
273 created for the implementation, administration, and enforcement of the
274 construction codes, ~~under the administrative and operational control of~~
275 ~~the~~ and the official in charge thereof shall be known as the building
276 official, who shall be designated by the director; provided, the fire

277 marshal or his or her designee shall be responsible for enforcement of
278 the International Fire Code.

279

280 Section 10. KMC 21.06.190 is amended to read as follows:

281

282 **21.06.190 Alternative materials, design and methods of**
283 **construction and equipment.**

284

285 The provisions of this chapter and the technical codes are not intended
286 to prevent the installation of any material or to prohibit any design or
287 method of construction not specifically prescribed by this chapter and
288 the technical codes; provided, that any such alternative has been
289 approved. The building official shall have the authority to approve an
290 alternative material, design or method of construction upon application
291 of the owner or the owner's authorized agent. The building official shall
292 first find that the proposed design is satisfactory and complies with the
293 intent of the provisions of this chapter and the technical codes, and that
294 the material, method or work offered is, for the purpose intended, not
295 less than the equivalent of that prescribed in the technical codes in
296 quality, strength, effectiveness, fire resistance, durability, energy
297 efficiency, and safety. Compliance with the specific performance-based
298 provisions of the construction codes shall be an alternative to the
299 specific requirements of the construction codes. Where the alternative
300 material, design or method of construction is not approved, the building
301 official shall respond in writing, stating the reasons why the alternative
302 was not approved. The building official is authorized to charge an
303 additional fee to evaluate any proposed alternate under the provisions
304 of this section.

305

306 Section 11. KMC 21.06.215 is amended to read as follows:

307

308 **21.06.215 Work exempt from permit.**

309

310 Exemptions from permit requirements of this chapter shall not be
311 deemed to grant authorization for any work to be done in any manner in
312 violation of the provisions of the technical codes or any other laws or
313 ordinances of this jurisdiction. Permit exemptions shall not apply to
314 areas of flood hazard or city land use critical areas and their required
315 buffers, or locations subject to the construction requirements of the
316 International Wildland-Urban Interface Code. Permits shall not be
317 required for the following:

318 (1) Building.

319 (A) Accessory structures.

320 (i) One-story detached IRC accessory structures used as
321 ~~tool and storage sheds for tools or storage~~, one-story tree-
322 supported play structures, children's playhouses and similar
323 uses, but not including vehicle storage or heated or unheated
324 office/studio's and similar uses, provided the floor area does
325 not exceed two hundred square feet, and, except one-story
326 tree-supported play structures, the height does not exceed

- 327 twelve feet from the grade plane to the highest point of the
328 roof.
- 329 (ii) One-story detached IBC accessory structures used as
330 tool and storage sheds, one-story tree-supported play
331 structures, playhouses and similar uses, but not including
332 vehicle storage, provided the floor area does not exceed one
333 hundred twenty square feet and, except one-story tree-
334 supported play structures, the height does not exceed twelve
335 feet from the grade plane to the highest point of the roof.
- 336 (B) Fences not over six feet high.
- 337 (C) Oil derricks.
- 338 (D) Retaining walls which are not over four feet in height
339 measured from the bottom of the footing to the top of the wall,
340 unless supporting a surcharge or impounding Class I, II or III-A
341 liquids.
- 342 (E) Water tanks supported directly on grade if the capacity does
343 not exceed five thousand gallons and the ratio of height to
344 diameter or width does not exceed two to one.
- 345 (F) Sidewalks, decks and driveways constructed under the
346 provisions of the IRC, which are not more than thirty inches
347 above grade and not over any basement or story below.
- 348 (G) Replacement of nonstructural siding on IRC structures
349 except for veneer, stucco or exterior finish and insulation
350 systems (EFIS). This exemption shall not apply to structures
351 regulated under Chapter 64.55 RCW.
- 352 (H) In-kind reroofing of one- and two-family dwellings, provided
353 the roof sheathing is not removed or replaced.
- 354 (I) Painting, papering, tiling, carpeting, cabinets, countertops
355 and similar finish work; provided, that existing accessibility
356 features are not altered.
- 357 (J) Temporary motion picture, television and theater stage sets
358 and scenery.
- 359 (K) Prefabricated swimming pools accessory to a one- or two-
360 family dwelling or a Group R-3 occupancy which are less than
361 twenty-four inches deep, do not exceed five thousand gallons
362 and are installed entirely above ground.
- 363 (L) Swings, slides and other similar playground equipment.
- 364 (M) Window awnings supported by an exterior wall of one- and
365 two-family dwellings which do not project more than fifty-four

- 366 inches from the exterior wall and do not require additional
367 support.
- 368 (N) In-kind window replacement for IRC structures where no
369 alteration of structural members is required, safety glazing is
370 provided where required, window fall protection is provided
371 where required, emergency egress requirements are provided
372 and when the window U-values meet the current prescriptive
373 requirements of the International Energy Conservation Code.
- 374 (O) Nonfixed and movable cases, counters and partitions not
375 over five feet, nine inches in height.
- 376 (P) Satellite earth station antennas six and one-half feet or less
377 in diameter or diagonal in zones other than residential zones.
- 378 (Q) Satellite earth station antennas three and one-quarter feet
379 or less in diameter in residential zones.
- 380 (R) Video programming service antennas three and one-quarter
381 feet or less in diameter or diagonal dimension, regardless of
382 zone.
- 383 (S) Job shacks that are placed at a permitted job site during
384 construction may be allowed on a temporary basis and shall be
385 removed upon final approval of construction. A job shack is a
386 portable structure for which the primary purpose is to house
387 equipment and supplies, and which may serve as a temporary
388 office during construction for the purposes of the construction
389 activity.
- 390 (T) Flag and light poles that do not exceed twenty feet in height.
391 (An electrical permit may still be required.)
- 392 (U) Decking replacement on decks without changing or adding
393 any other structural members or removing guardrails.
- 394 (V) Photovoltaic (PV) panels meeting all of the following criteria:
- 395 (i) PV system is designed and proposed for a detached one-
396 or two-family dwelling or townhouse not more than three
397 stories above grade or detached accessory structure.
- 398 (ii) PV system is being installed by a licensed contractor.
- 399 (iii) Mounting system is engineered and designed for PV.
- 400 (iv) Rooftop is made from lightweight material such as a
401 single layer of composition shingles, metal roofing, or cedar
402 shingles.
- 403 (v) Panels are mounted no higher than eighteen inches
404 above the surface of the roofing to which they are affixed.

- 405 Except for flat roofs, no portion of the system may exceed
406 the highest point of the roof (or ridge).
- 407 (vi) Total dead load of panels, supports, mountings,
408 raceways, and all other appurtenances weigh no more than
409 three and one-half pounds per square foot.
- 410 (vii) Supports for solar panels are installed to spread the
411 dead load across as many roof-framing members as needed
412 to ensure that at no point loads in excess of fifty pounds are
413 created.
- 414 (viii) The installation will comply with the manufacturer's
415 instructions.
- 416 (ix) Roof and wall penetrations will be flashed and sealed to
417 prevent entry of water, rodents, and insects.
- 418 (x) Home is code compliant to setbacks and height, or code
419 allows expansion of nonconformity for solar panels.
- 420 (xi) System complies with International Residential Code
421 Chapter 23 for solar thermal energy systems.
- 422 (xii) Roof-mounted collectors and supporting structure are
423 constructed of noncombustible materials or fire-retardant-
424 treated wood equivalent to that required for the roof
425 construction.
- 426 (xiii) Roof access points and pathways for firefighters will be
427 provided per IFC 605.11.
- 428 (xiv) The PV system has an approved and issued electrical
429 permit.
- 430 (2) Electrical.
- 431 (A) Portable motors or other portable appliances energized by
432 means of a cord or cable having an attachment plug end to be
433 connected to an approved receptacle when that cord or cable is
434 permitted by the National Electrical Code;
- 435 (B) Repair or replacement of fixed motors, transformers or fixed
436 approved appliances or devices rated fifty amps or less which
437 are like-in-kind in the same location;
- 438 (C) Temporary decorative lighting, when used for a period not
439 to exceed ninety days and removed at the conclusion of the
440 ninety-day period;
- 441 (D) Repair or replacement of current-carrying parts of any
442 switch, conductor or control device which are like-in-kind in the
443 same location;

- 444 (E) Repair or replacement of attachment plug(s) and associated
445 receptacle(s) rated fifty amperes or less which are like-in-kind in
446 the same location;
- 447 (F) Repair or replacement of any over-current device which is
448 like-in-kind in the same location;
- 449 (G) Repair or replacement of electrodes or transformers of the
450 same size and capacity for signs or gas tube systems;
- 451 (H) Removal of electrical wiring;
- 452 (I) All wiring for low voltage installations within a one-family
453 dwelling unit or its accessory structure except wired security, fire
454 or smoke alarm systems, provided the power is supplied by a
455 listed Class 2 power supply and none of the wiring penetrates
456 the wall or ceiling between the dwelling unit and an attached
457 garage or wall separating two dwelling units;
- 458 (J) The installation, alteration or repair of electrical wiring,
459 apparatus or equipment or the generation, transmission,
460 distribution or metering of electrical energy or in the operation of
461 signals or the transmission of intelligence by a public or private
462 utility in the exercise of its function as a serving utility;
- 463 (K) Portable generators serving only cord- and plug-connected
464 loads supplied through receptacles on the generator;
- 465 (L) Travel trailers;
- 466 (M) Like-in-kind replacement of one or more of the following:
467 contactor, relay, timer, starter, circuit board, panel(s) or similar
468 control component; household appliance; circuit breaker; fuse;
469 residential luminaire; lamp; snap switch; dimmer; receptacle
470 outlet; thermostat; heating element; luminaire ballast with an
471 exact same ballast; component(s) of electric signs, outline
472 lighting, skeleton neon tubing when replaced on site by an
473 appropriate electrical contractor and when the sign, outline
474 lighting or skeleton neon tubing electrical system is not modified;
475 ten-horsepower or smaller motor; and induction detection loops
476 described in WAC 296-46B-300(2) and used to control gate
477 access devices.
- 478 (3) Mechanical.
- 479 (A) Portable heating, cooking, or clothes drying appliances.
- 480 (B) Portable ventilation equipment.
- 481 (C) Portable cooling unit.
- 482 (D) Steam, hot or chilled water piping within any heating or
483 cooling equipment regulated by this chapter.

484 (E) Replacement of any part which does not alter its approval or
485 make it unsafe.

486 (F) Portable evaporative cooler.

487 (G) Self-contained refrigeration system containing ten pounds
488 or less of refrigerant and actuated by motors of one horsepower
489 or less.

490 (H) Portable fuel cell appliances that are not connected to a fixed
491 piping system and are not interconnected.

492 (4) Plumbing.

493 (A) The stopping and/or repairing of leaks in drains, water, soil,
494 waste or vent pipe; provided, however, that should any
495 concealed trap, drain pipe, water, soil, waste or vent pipe
496 become defective and it becomes necessary to remove and
497 replace the same with new material, the same shall be
498 considered as new work and a permit shall be obtained and
499 inspection made as provided in this chapter.

500 (B) The clearing of stoppages, or the repairing of leaks in pipes,
501 valves or fixtures and the removal and reinstallation of water
502 closets, provided such repairs do not involve or require
503 replacement or rearrangement of valves, pipes or fixtures.

504 (C) Reinstallation or replacement of prefabricated fixtures that
505 do not involve or require the replacement or rearrangement of
506 valves or pipes.

507
508 Section 12. KMC 21.06.245 is amended to read as follows:

509
510 **21.06.245 Time limitation of application.**

511
512 An application for a permit for any proposed work shall expire eighteen
513 months after the date of filing. The building official may extend the life of
514 an application if any of the following conditions exist:

515 (1) Any other city review is in progress; provided the applicant has
516 submitted a complete, timely response to city requests or the building
517 official determines that unique or unusual circumstances exist that
518 warrant additional time for such response, and the building official
519 determines that the review is proceeding in a timely manner toward final
520 city decision; or

521 (2) Litigation against the city or applicant is in progress, the outcome of
522 which may affect the validity or the provisions of any permit issued
523 pursuant to such application.

524 (3) At the sole discretion of the building official provided that there have
525 not been newly adopted codes, fees, ordinances, or laws that affect the
526 application.

527 Section 13. KMC 21.06.248 is amended to read as follows:

528

529 **21.06.248 Vesting of construction codes.**

530

531 The construction codes and construction administrative code that are in
532 effect when the building permit application is deemed complete by the
533 building official shall apply. The city has the authority to establish
534 policies and procedures for establishing the requirements of a complete
535 application. For mechanical, electrical or plumbing permit applications
536 submitted after the ordinance codified in this title has taken effect, but
537 related to the scope of work identified in a building permit application
538 that was complete prior to the effective date of the ordinance codified in
539 this chapter, all applicable construction codes adopted and in force at
540 the time of filing of the complete building permit application will apply.
541 An expired permit may lose its code vesting under Section 21.06.250 of
542 this code.

543

544 Section 14. KMC 21.06.255 is amended to read as follows:

545

546 **21.06.255 Permit expiration.**

547

548 (a) Every building permit and its associated ancillary permits issued for
549 an IRC permitted structure or for a tenant space within an existing
550 building shall expire in two years from the date of issuance. Within two
551 years of the issuance of the permit for an IRC structure, the outside must
552 be complete including roofing, siding, windows, exterior doors and
553 applicable site and right-of-way improvements. The two years to
554 complete the IRC structure may not be extended.

555 (b) Every LSM permit and every building permit and its associated
556 ancillary permits issued for a commercial, educational, institutional,
557 multifamily, public, industrial or similar structure shall expire in three
558 years from the date of issuance. LSM permits supporting approved
559 subdivisions, short subdivisions or binding site plans shall expire upon
560 the expiration of the preliminary subdivision, preliminary short
561 subdivision or binding site plan; however, an LSM permit for a recorded
562 subdivision, short subdivision or binding site plan shall not expire until
563 the LSM permit is finalized.

564 (c) Sign permits and electrical, mechanical, and plumbing permits not
565 associated with a building permit shall expire one year from the date of
566 issuance.

567 (d) The building official may grant a thirty-day extension of time for
568 permits when only the final inspection is remaining, and all other work
569 has been approved.

570 (e) It is a violation of this chapter to allow a permit to expire without first
571 obtaining an approved final inspection.

572 Exception 1: A new building permit approved to current code and
573 issued for an IRC structure to complete the work covered by a
574 previous, expired permit shall expire in:

575 (1) ~~One year~~ Six months if the framing insulation
576 inspection was not approved on the previous building
577 permit; ~~or~~. The project will lose its original code vesting
578 and will be vested to the codes that are in force at the
579 time the new building permit application is deemed
580 complete. The fees for the new building permit will be
581 based on the valuation of the work remaining to complete
582 the project; or

583 (2) Six months if the framing insulation inspection was
584 approved on the previous building permit and the exterior
585 of the structure is not completed ~~per subsection (e)(3) of~~
586 ~~this section; or including: roofing, siding, windows,~~
587 ~~exterior doors, and applicable site and right-of-way~~
588 improvements. The project will retain its original code
589 vesting. The fees for the new building permit will be
590 based on the valuation of the work remaining to complete
591 the project; or

592 (3) Two years if the insulation inspection was approved
593 and the outside of the structure is complete including
594 roofing, siding, windows, exterior doors and applicable
595 site and right-of-way improvements. The project will
596 retain its original code vesting. The fees for the new
597 building permit will be based on the valuation of the work
598 remaining to complete the project.

599 Exception 2: For permits resulting from work without a permit or
600 other code enforcement action(s), the expiration date will be
601 determined by the building official.

602 (f) During or after a declared emergency covered under Chapter 38.52
603 RCW, the building official may authorize a six-month extension to an
604 unexpired permit if the building official finds that the state of emergency
605 resulted in a stoppage of work or substantial construction delays.

606 (g) The provisions of this Section 21.06.255 go into effect immediately
607 upon passage by the City Council and retroactively apply to all permits
608 regulated by this Section.

609 Section 15. KMC 21.06.275 is amended to read as follows:

610 **21.06.275 Information on construction documents.**

611
612
613
614 Construction documents shall be dimensioned and submitted
615 electronically through the city's permitting portal. ~~Construction~~
616 ~~documents printed on suitable material are permitted to be submitted~~
617 ~~when approved by the building official.~~ Construction documents shall be
618 of sufficient clarity to indicate the location, nature and extent of the work
619 proposed and show in detail that it will conform to the provisions of this
620 chapter and relevant laws, ordinances, rules and regulations. The plans

621 must include the relevant items listed in this section and any other
622 information or documents deemed necessary by the building official.

623 (1) Building.

624 (A) Fire Protection System Shop Drawings. Shop drawings for
625 the fire protection system(s) shall be submitted to indicate
626 conformance with this chapter and the construction documents
627 and shall be approved prior to the start of system installation.
628 Shop drawings shall contain all information as required by the
629 referenced installation standards in Chapter 9 of the IBC. Shop
630 drawings shall be prepared by a certified individual as required
631 by the state of Washington.

632 (B) Means of Egress. The construction documents shall show in
633 sufficient detail the location, construction, size and character of
634 all portions of the means of egress in compliance with the
635 provisions of this chapter. In occupancies within the scope of the
636 International Building Code, the construction documents shall
637 designate the number of occupants to be accommodated on
638 every floor, and in all rooms and spaces.

639 (C) Exterior Wall Envelope. Construction documents for all
640 buildings shall describe the exterior wall envelope in sufficient
641 detail to determine compliance with this chapter. The
642 construction documents shall provide details of the exterior wall
643 envelope as required, including flashing, intersections with
644 dissimilar materials, corners, end details, control joints,
645 intersections at roof, eaves or parapets, means of drainage,
646 water-resistant membrane barrier and details around openings.
647 The construction documents shall include manufacturer's
648 installation instructions that provide supporting documentation
649 that the proposed penetration and opening details described in
650 the construction documents maintain the weather resistance of
651 the exterior wall envelope. The supporting documentation shall
652 fully describe the exterior wall system that was tested, where
653 applicable, as well as the test procedure used.

654 Exception: Subject to the approval of the building official, one-
655 and two-family dwellings and private garages may be exempt
656 from the detailing requirements of this section.

657 (D) Building Enclosure Design Requirements of Chapter 64.55
658 RCW. Building enclosure design documents of new or
659 rehabilitated multifamily buildings that are subject to regulations
660 of Chapter 64.55 RCW must be submitted at the time of permit
661 application. All applications for building construction or
662 rehabilitation shall include design documents prepared and
663 stamped by an architect or engineer that identify the building
664 enclosure (building enclosure documents), including, but not
665 limited to, waterproofing, weatherproofing and/or otherwise

666 protected from water or moisture intrusion, unless a recorded
667 irrevocable sale prohibition covenant is submitted to the city.

668 The city is prohibited from issuing a permit for construction or
669 rehabilitative construction unless the building enclosure
670 documents contain a stamped statement by the person stamping
671 the building enclosure design documents in substantially the
672 following form: "The undersigned has provided building
673 enclosure documents that in my professional judgment are
674 appropriate to satisfy the requirements of RCW 64.55.005
675 through 64.55.090." The city is not responsible for determining
676 whether the building enclosure design documents or the
677 inspections performed are adequate or appropriate to satisfy the
678 requirements of the act.

679 (E) Site Plan. The construction documents submitted with the
680 application for permit shall be accompanied by a site plan
681 showing to scale the size and location of new construction and
682 existing structures on the site, significant trees, distances from
683 lot lines, easements, the established street grades and the
684 proposed finished grades and, as applicable, flood hazard areas,
685 floodways, and design flood elevations; and it shall be drawn in
686 accordance with an accurate boundary line survey. Where
687 design flood elevations are not specified, they shall be
688 established in accordance with Section 1612.3.1 of the IBC; in
689 the case of demolition, the site plan shall show construction to
690 be demolished and the location and size of existing structures
691 and construction that are to remain on the site or plot. The
692 building official is authorized to waive or modify the requirement
693 for a site plan where the application for permit is for alteration or
694 repair or where otherwise warranted.

695 (F) Structural Information. For structures designed to the IBC,
696 the construction documents shall provide the information
697 specified in Section 1603. For structures designed to the IRC,
698 buildings and structures utilizing braced wall design, and where
699 required by the building official, braced wall lines shall be
700 identified on the construction documents. Pertinent information
701 including, but not limited to, bracing methods, location and length
702 of braced wall panels and foundation requirements of braced
703 wall panels at top and bottom shall be provided.

704 (G) Information for structures located in wildland-urban interface
705 areas. In addition to the above requirements, site plans shall
706 include topography, width, and percent of grade of access roads,
707 landscape and vegetation details, locations of structures or
708 building envelopes, existing or proposed overhead utilities,
709 occupancy classification of buildings, types of ignition-resistant
710 construction of buildings, structures, and their appendages, roof
711 classification of buildings, and site water supply systems. The
712 code official is authorized to waive or modify the requirement for

713 a site plan where the application for permit is for alteration or
714 repair or where otherwise warranted.

715 (2) Electrical.

716 (A) Electrical Engineer. Electrical plans for the following
717 installations shall be prepared by, or under the direction of, a
718 consulting electrical engineer registered under Chapter 18.43
719 RCW and Chapters 392-344, 246-320, and 388-97 WAC. All
720 electrical plans must bear the engineer's stamp and signature.

721 (i) All educational facilities, hospitals and nursing homes;

722 (ii) All services or feeders rated one thousand six hundred
723 amperes or larger;

724 (iii) All installations identified in the National Electrical Code
725 requiring engineering supervision;

726 (iv) As required by the building official for installations which
727 by their nature are complex, hazardous or pose unique
728 design problems.

729 (B) Information on Construction Documents. Construction
730 documents shall identify the name and classification of the
731 facility and clearly show the electrical installation or alteration in
732 floor plan view, include all switchboard and panelboard
733 schedules and, when a service or feeder is to be installed or
734 altered, must include a riser diagram, load calculation, fault
735 current calculation, and interrupting rating of equipment.

736 (C) Penetrations. Construction documents shall indicate where
737 penetrations will be made for electrical systems and shall
738 indicate the materials and methods for maintaining required
739 structural safety, fire-resistance rating and fireblocking.

740 (D) Load Calculations. Where an addition or alteration is made
741 to an existing electrical system, an electrical load calculation
742 shall be prepared to determine if the existing electrical service
743 has the capacity to serve the added load.

744 (E) Site Plan. The construction documents submitted with the
745 application for permit shall be accompanied by a site plan
746 showing to scale the size and location of new construction and
747 existing structures and equipment and distances from lot lines.

748 (F) Plan Review Required. Electrical plan review is required for
749 all new or altered electrical projects in the following occupancies
750 and/or installations.

751 Exception: Subject to the approval of the building official,
752 electrical plan review is not required for the occupancies and/or
753 installations listed below when the scope of work is for conduit(s)

754
755

only and electrical plans for the project have been submitted for review.

756
757

(i) Educational, institutional, or health care facilities/buildings as follows:

758

a. Hospital;

759

b. Nursing home unit or long-term care unit;

760

c. Boarding home;

761

d. Assisted living facility;

762

e. Private alcoholism hospital;

763

f. Alcoholism treatment facility;

764

g. Private psychiatric hospital;

765

h. Maternity home;

766

i. Ambulatory surgery facility;

767

j. Renal hemodialysis clinic;

768

k. Residential treatment facility for psychiatrically impaired children and youth;

769

770

l. Adult residential rehabilitation center;

771

m. Educational facilities;

772

n. Institutional facilities.

773

Exception: Electrical plan review is not required for the above educational, institutional, or health care facilities/buildings where:

774

775

776

a. Lighting specific projects that result in an electrical load reduction on each feeder involved in the project;

777

778

779

b. Low voltage systems;

780

c. Modification to existing electrical installations where all of the following conditions are met:

781

782

1. Service or distribution equipment involved is rated less than one hundred amperes;

783

784

785

2. Does not involve emergency systems other than listed unit equipment per NEC 700.12(F);

786

787

- 788
789
790
3. Does not involve branch circuits or feeders of an essential electrical system as defined in NEC 517.2; and
- 791
792
4. Service and feeder load calculations are increased by five percent or less;
- 793
794
795
- d. Stand-alone utility fed services that do not exceed one hundred amperes where the project's distribution system does not include:
- 796
797
1. Emergency systems other than listed unit equipment per NEC 700.12(F);
- 798
799
2. Critical branch circuits or feeders as defined in NEC 517.2; or
- 800
3. A required fire pump system.
- 801
802
803
804
805
- (ii) Installations in occupancies, except one- and two-family dwellings, where a service or feeder rated one hundred amperes or greater is installed or altered or if more than one hundred amperes are added to the service or feeder.
- 806
807
- (iii) All work on electrical systems operating at/over six hundred volts.
- 808
- (iv) All commercial generator installations or alterations.
- 809
810
- (v) All work in areas determined to be hazardous (classified) locations by the NEC.
- 811
812
- (vi) If fifty percent or more of luminaires change in a space enclosed by walls or ceiling-height partitions.
- 813
814
815
- (vii) Installations of switches or circuit breakers rated four hundred amperes or over except for one- and two-family dwellings.
- 816
- (viii) Wind-driven generators.
- 817
- (ix) Solar photovoltaic systems.
- 818
819
- (x) Any proposed installation which cannot be adequately described in the application form.
- 820
821
- (xi) Temporary electrical services exceeding four hundred amps.
- 822
823
824
- (3) Plumbing. Plans must be submitted for review and approval whenever the work exceeds the thresholds shown on the MyBuildingPermit.com tipsheet.

825 (4) Mechanical. Plans must be submitted for review and approval
 826 whenever the work exceeds the thresholds shown on the
 827 MyBuildingPermit.com tipsheet.

828 (5) Relocatable Buildings. Construction documents for relocatable
 829 buildings shall comply with Section IBC 3113.

830 (6) Storm Shelters. Construction documents for storm shelters shall
 831 include the information required in ICC 500.

832
 833 Section 16. A new section shall be added to chapter 21.06 KMC,
 834 to be codified as KMC 21.06.487, to read as follows:

835
 836 **21.06.487 Types IV-A, IV-B and IV- C connection protection**
 837 **inspection.**

838
 839 In buildings of Types IV-A, IV-B and IV- C construction, where
 840 connection fire resistance ratings are provided by wood cover calculated
 841 to meet the requirements of Section 2304.10.1, inspection of wood
 842 cover shall be made after the cover is installed, but before any other
 843 coverings or finishes are installed.

844
 845 Section 17. KMC 21.06.490 is amended to read as follows:

846
 847 **21.06.490 Energy efficiency Code inspection.**

848
 849 ~~(a) Envelope. In addition to the inspections required in Chapter 51-11~~
 850 ~~WAC WAC Chapters 51-11C and 51-11R, the following inspections are~~
 851 ~~also required:~~

852 ~~(1) Wall Insulation Inspection. To be made after all wall insulation and~~
 853 ~~air vapor retarder sheet or film materials are in place, but before any~~
 854 ~~wall covering is placed.~~

855 ~~(2) Glazing Inspection. To be made after glazing materials are installed~~
 856 ~~in the building.~~

857 ~~(3) Exterior Roofing Insulation. To be made after the installation of the~~
 858 ~~roof insulation, but before concealment.~~

859 ~~(4) Slab/Floor Insulation. To be made after the installation of the~~
 860 ~~slab/floor insulation, but before concealment.~~

861 ~~(b) Mechanical.~~

862 ~~(1) Mechanical Equipment Efficiency and Economizer. To be made~~
 863 ~~after all equipment and controls required by this chapter are installed~~
 864 ~~and prior to the concealment of such equipment or controls.~~

865 ~~(2) Mechanical Pipe and Duct Insulation. To be made after all pipe, fire~~
 866 ~~suppression piping and duct insulation is in place, but before~~
 867 ~~concealment.~~

868 ~~(c) Lighting and Motors.~~

869 ~~(1) Lighting Equipment and Controls. To be made after the installation~~
 870 ~~of all lighting equipment and controls required by this chapter, but before~~
 871 ~~concealment of the lighting equipment.~~

872 ~~(2) Motor Inspections. To be made after installation of all equipment~~
 873 ~~covered by this chapter, but before concealment.~~

874 (a) Footing and foundation insulation. Inspections shall verify footing
 875 and/or foundation insulation R-value, location, thickness, depth of burial
 876 and protection of insulation as required by the code, approved plans and
 877 specifications.

878 (b) Thermal envelope. Inspections shall be made before application of
 879 interior finish and shall verify that envelope components with the correct
 880 type of insulation, the R-values, the correct location of insulation, the
 881 correct fenestration, the U-factor, SHGC, VT, and air leakage controls
 882 are properly installed as required by the code, approved plans and
 883 specifications, including envelope components in future tenant spaces
 884 of multitenant buildings.

885 (c) Plumbing system. Inspections shall verify the type of insulation, the
 886 R-values, the protection required, controls, and heat traps as required
 887 by the code, approved plans and specifications.

888 (d) Mechanical system. Inspections shall verify the installed HVAC
 889 equipment for the correct type and size, controls, duct and piping
 890 insulation R-values, duct system and damper air leakage, minimum fan
 891 efficiency, energy recovery and economizer as required by the code,
 892 approved plans and specifications.

893 (e) Electrical system. Inspections shall verify lighting system controls,
 894 components, meters, motors and installation of an electric meter for
 895 each dwelling unit as required by the code, approved plans and
 896 specifications.

897

898 Section 18. KMC 21.06.535 is amended to read as follows:

899

900 **21.06.535 Use and change of occupancy.**

901

902 A building or structure shall not be used or occupied, and a change in
 903 the existing use or occupancy classification of a building or structure or
 904 portion thereof shall not be made until the building official has issued a
 905 certificate of occupancy therefor as provided herein. Issuance of a
 906 certificate of occupancy shall not be construed as an approval of a
 907 violation of the provisions of this chapter or of other ordinances of the
 908 jurisdiction. Certificates presuming to give authority to violate or cancel
 909 the provisions of this code or other ordinances of the jurisdiction shall
 910 not be valid.

911 Exceptions:

912 (1) Work exempt from permits per Section 21.06.215.

913 (2) For single-family dwellings and their accessory structures,
914 the city-issued building permit inspection record may serve as
915 the certificate of occupancy when the final inspection has been
916 approved by the building official or the building official's
917 designee.
918

919 Section 19. A new section shall be added to chapter 21.06 KMC,
920 to be codified as KMC 21.06.537, to read as follows:
921

922 **21.06.537 Change in use.**
923

924 Changes in the character or use of an existing structure shall not be
925 made except as specified in Section 506 and 507 of the International
926 Existing Building Code.
927

928 Section 20. KMC 21.06.540 is amended to read as follows:
929

930 **21.06.540 Certificate issued.**
931

932 After the building official inspects the building or structure and does not
933 find violations of the provisions of this chapter or other laws that are
934 enforced by the planning and building department, the building official
935 shall issue a certificate of occupancy that contains the following:

936 (1) The building permit number.

937 (2) The address of the structure.

938 (3) The name and address of the owner or the owner's authorized
939 agent.

940 (4) A description of that portion of the structure for which the certificate
941 is issued.

942 (5) A statement that the described portion of the structure has been
943 inspected for compliance with the requirements of this chapter for the
944 occupancy and division of occupancy and the use for which the
945 proposed occupancy is classified.

946 (6) The name of the building official.

947 (7) The edition of the code under which the permit was issued.

948 (8) The use and occupancy.

949 (9) The type of construction.

950 (10) The design occupant load where applicable.

951 (11) If Where an automatic sprinkler system is provided, and whether
952 the sprinkler system is required and for what reason.

953 (12) Any special stipulations and conditions of the building permit.
954

955 Section 21. KMC 21.06.555 is amended to read as follows:

956

957 **21.06.555 Connection of service utilities.**

958

959 A person shall not make connections from a utility, source of energy,
960 fuel or power, or a water system or sewer system to any building or
961 system that is regulated by this chapter for which a permit is required,
962 until approval is given by the building official.

963

964 Section 22. KMC 21.06.565 is amended to read as follows:

965

966 **21.06.565 Authority to disconnect service utilities.**

967

968 The building official shall have the authority to authorize disconnection
969 of utility service to the building, structure or system regulated by this
970 chapter and the codes referenced in case of emergency where
971 necessary to eliminate an immediate hazard to life or property, or where
972 such utility connection has been made without the required approval.
973 The building official shall notify the serving utility, and wherever possible
974 the owner or the owner's authorized agent and occupant of the building,
975 structure or service system, of the decision to disconnect prior to taking
976 such action. If not notified prior to disconnecting, the owner or the
977 owner's authorized agent or occupant of the building, structure or
978 service system shall be notified in writing, as soon as practical
979 thereafter.

980

981 Section 23. KMC 21.06.610 is amended to read as follows:

982

983 **21.06.610 Authority.**

984

985 Whenever the building official finds any work being performed in either
986 a dangerous or unsafe manner or in a manner contrary ~~either~~ to the
987 provisions of this chapter, any of the technical codes or other pertinent
988 laws or ordinances, the building official is authorized to issue a stop work
989 order.

990

991 Section 24. KMC 21.06.615 is amended to read as follows:

992

993 **21.06.615 Issuance.**

994

995 The stop work order shall be in writing and shall be given to the owner
996 of the property involved, the owner's authorized agent or to the person
997 performing the work. Upon issuance of a stop work order, the cited work
998 shall immediately cease. The stop work order shall state the reason for
999 the order and the conditions under which the cited work ~~will be permitted~~
1000 is authorized to resume.

1001

1002 Section 25. KMC 21.06.625 is amended to read as follows:

1003

1004 **21.06.625 ~~Unlawful continuance~~ Failure to comply.**

1005

1006 Any person who shall continue any work in or about the structure after
1007 having been served with a stop work order, except such work as that

1008 person is directed to perform to remove a violation or unsafe condition,
 1009 shall be subject to penalties as prescribed by law.

1010
 1011 Section 26. KMC 21.08.010 is amended to read as follows:

1012
 1013 **21.08.010 International Building Code adopted.**

1014
 1015 The ~~2018~~ 2021 Edition of the International Building Code, as adopted
 1016 by the State Building Code Council in Chapter 51-50 WAC, as published
 1017 by the International Code Council, excluding Chapter 1,
 1018 "Administration," is adopted, together with the following amendments.
 1019 The Construction Administrative Code, as set forth in Chapter 21.06,
 1020 shall be used in place of IBC Chapter 1, Administration.

1021
 1022 Section 27. KMC 21.08.016 is amended to read as follows:

1023
 1024 **21.08.016 IBC Section 202 amended.**

1025
 1026 Section 202 of the IBC is amended to read:

1027 ~~**High-rise Building.** Buildings having occupied floors or occupied~~
 1028 ~~roof located more than 75 feet (22,860 mm) above the lowest level~~
 1029 ~~of fire department vehicle access.~~

1030 **[F] STANDBY POWER SYSTEM.** All references to Standby Power
 1031 Systems shall be considered to indicate Legally Required Power in
 1032 accordance with the Washington Cities Electrical, and NFPA 70
 1033 (National Electrical Code), and shall be in accordance with Chapter
 1034 27 Legally Required Standby Power, as a source of automatic
 1035 electric power of a required capacity and duration to operate
 1036 requiring building, hazardous material or ventilation systems in the
 1037 event of a failure of the primary power. Standby Power Systems are
 1038 required for electrical loads where interruption of the primary power
 1039 could create hazards or hamper rescue or fire-fighting operations.

1040
 1041 Section 28. KMC 21.08.072 is amended to read as follows:

1042
 1043 **21.08.072 IBC Chapter 27 amended.**

1044
 1045 User note:

1046 About this chapter: Electrical systems and components are integral to
 1047 most structures; therefore it is necessary for the code to address their
 1048 installation and protection. Structures depend on electricity for the
 1049 operation of many life safety systems including fire alarm, smoke control
 1050 and exhaust, fire suppression, fire command and communication
 1051 systems. Since power supply to these systems is essential, Chapter 27
 1052 addresses where standby and emergency power must be provided.

1053 Chapter 27 of the IBC is amended to read as follows:

1054 **2701.1 Scope.**

1055 The provisions of this chapter and the Washington Cities
 1056 Electrical Code shall govern the design, construction, erection
 1057 and installation of the electrical components, appliances,
 1058 equipment and systems used in buildings and structures
 1059 covered by this code. The International Fire Code, International
 1060 Building Code, and the Washington Cities Electrical Code shall
 1061 govern the use and maintenance of electrical components,
 1062 appliances, equipment and systems. The International Existing
 1063 Building Code and the Washington Cities Electrical Code shall
 1064 govern the alteration, repair, relocation, replacement and
 1065 addition of electrical components, appliances, or equipment and
 1066 systems.

1067 **SECTION 2702**

1068 **EMERGENCY AND LEGALLY REQUIRED STANDBY**
 1069 **POWER SYSTEMS**

1070 **[F] 2702.1 General.**

1071 Emergency power systems and legally required standby power
 1072 systems shall comply with Sections 2702.1.1 through 2702.1.7
 1073 and Table 2702.

1074 **[F] 2702.1.1 Stationary generators.**

1075 Stationary emergency and legally required standby power
 1076 generators required by this code shall be listed in accordance
 1077 with UL 2200.

1078 **[F] 2702.1.2 Fuel-line piping protection.**

1079 Fuel lines supplying a generator set inside a high-rise building
 1080 shall be separated from areas of the building other than the
 1081 room the generator is located in by ~~an approved methods; or~~
 1082 ~~an assembly that has a fire-resistance rating of not less than 2~~
 1083 ~~hours. Where the building is protected throughout with an~~
 1084 ~~automatic sprinkler system installed in accordance with Section~~
 1085 ~~903.3.1.1, the required fire-resistance rating shall be reduced to~~
 1086 ~~4 hour.~~

- 1087 1. A fire-resistant pipe-protection system that has been tested
 1088 in accordance with UL 1489. The system shall be installed
 1089 as tested and in accordance with the manufacturer's
 1090 installation instructions and shall have a rating of not less
 1091 than 2 hours. Where the building is protected throughout
 1092 with an automatic sprinkler system installed in accordance
 1093 with Section 903.3.1.1, the required rating shall be reduced
 1094 to 1 hour.
- 1095 2. An assembly that has a fire-resistance rating of not less
 1096 than 2 hours. Where the building is protected throughout
 1097 with an automatic sprinkler system installed in accordance

1098 with Section 903.3.1.1, the required fire-resistance rating
 1099 shall be reduced to 1 hour.

1100 3. Other approved methods.

1101

1102

[F] 2702.1.3 Installation.

1103 Emergency power systems and legally required standby power
 1104 systems required by this code or the International Fire Code,
 1105 systems required by this code or the International Fire Code
 1106 shall be installed in accordance with the International Fire Code,
 1107 Washington Cities Electrical Code, NFPA 110 and NFPA 111.

1108

[F] 2702.1.4 Load transfer.

1109 Emergency power systems shall automatically provide
 1110 secondary power within 10 seconds after primary power is lost,
 1111 unless specified otherwise in this code. Legally required
 1112 standby power systems shall automatically provide secondary
 1113 power within 60 seconds after primary power is lost, unless
 1114 specified otherwise in this code. Transfer to full emergency or
 1115 legally required standby power shall take place within the
 1116 maximum time to energize loads specified in Table 2702.

1117

[F] 2702.1.5 Load duration.

1118 Emergency power systems and legally required standby power
 1119 systems shall be designed to provide the required power for a
 1120 minimum duration of 8 hours for fire pumps serving high rise
 1121 buildings in accordance with NFPA 20, and 2 hours for other
 1122 systems without being refueled or recharged, unless specified
 1123 otherwise in this code.

1124 Exception: The minimum duration of all required power loads
 1125 may be reduced to 2 hours for all systems except for fire pumps
 1126 that require a minimum duration of 8 hours in accordance with
 1127 NFPA 20.

1128

[F] 2702.1.6 Uninterruptable power source.

1129 An uninterrupted source of power shall be provided for
 1130 equipment when required by the manufacturer's instructions,
 1131 the listing, this code or applicable referenced standards.

1132

[F] 2702.1.7 Interchangeability.

1133 Emergency power systems shall be an acceptable alternative
 1134 for installations that require legally required standby power
 1135 systems.

1136

[F] 2702.1.8 Group I-2 occupancies.

1137 In Group I-2 occupancies, occupancies located in flood hazard
 1138 areas established in 1612.3, where new essential electrical

1139 systems are installed, and where new essential electrical
1140 system generators are installed, the systems and generators
1141 shall be located and installed in accordance with ASCE 24.
1142 Where connections for hookup of temporary generators are
1143 provided, the connections shall be located at or above the
1144 elevation required in ASCE 24.

1145 **[F] 2702.1.9 Equipment room.**

1146 If a legally required standby or emergency power system
1147 includes a generator set inside or serving a building, the
1148 generator set shall be located in a separate room enclosed with
1149 2-hour fire barriers constructed in accordance with Section 707
1150 or horizontal assemblies constructed in accordance with
1151 Section 711, or both, to separate it from the remainder of the
1152 building, the transfer switches, and from the normal power
1153 source including transformers and distribution equipment. The
1154 transfer switches shall also be located in a separate room
1155 enclosed with 2-hour fire barriers constructed in accordance
1156 with Section 707 or horizontal assemblies constructed in
1157 accordance with Section 711, or both, to separate it from the
1158 remainder of the building. Power distribution from the
1159 emergency source to the emergency transfer switch shall be by
1160 an independent route from the normal power source.
1161 Independent routes shall mean either a physical separation
1162 distance of not less than 50 feet, or a minimum of 1-hour fire-
1163 resistance rated separation. System supervision with manual
1164 start and transfer features shall be provided at the fire command
1165 center or an approved location when a fire command center is
1166 not required. Such equipment rooms shall be ventilated directly
1167 to the exterior for generator combustion air and radiator cooling
1168 air. Any ducts required for such ventilation shall not be
1169 dampered and shall be fire-resistance rated to the same level
1170 of protection as that required for the equipment room. The
1171 requirements of this subsection shall not apply to optional
1172 tenant-owned or landlord-owned generator sets.

1173 **Exception:** Transfer switches shall be permitted to be in the
1174 same room as the legally required standby or emergency power
1175 system generator sets when inside or serving other than: 1) a
1176 high-rise building in accordance with Section 403; 2) an
1177 underground building in accordance with Section 405; and 3) a
1178 hospital in accordance with Section 407.

1179 **[F] 2702.1.10 Smoke control power systems.**

1180 Smoke control equipment and systems requiring legally
1181 required standby or emergency power shall be supplied with
1182 two sources of power. Primary power shall be from the normal
1183 building power system. Legally required standby power or
1184 emergency power shall be from an approved source complying
1185 with the Washington Cities Electrical Code. The legally required

1186 standby power or emergency power source and its transfer
 1187 switches shall be in separate rooms from the normal power
 1188 transformers and switchgears and ventilated directly to and
 1189 from the exterior. The room shall be completely enclosed in not
 1190 less than 1-hour fire barriers constructed in accordance with
 1191 Section 707, or 1-hour horizontal assemblies constructed in
 1192 accordance with Section 711, or both, except 2-hour fire-
 1193 resistance construction shall be required for high-rise and
 1194 underground buildings per Sections 403 and 405 respectively.
 1195 Power distribution from the two sources shall be by independent
 1196 routes to the room containing the automatic transfer switch(s).
 1197 Independent routes shall mean a physical distance of 50 feet or
 1198 a minimum 1-hour fire-resistance rated separation. Transfer to
 1199 full emergency power shall be automatic and shall take place
 1200 within the maximum time to energize loads. The systems shall
 1201 comply with the Washington Cities Electrical Code.

1202 Exception: Ventilation is not required for rooms containing only
 1203 transfer switches.

1204 **[F] 2702.1.11 Fuel-fired generator sets and fuel storage**
 1205 **location.**

1206 Fuel fired generator sets and associated fuel storage, including
 1207 optional landlord-owned or tenant-owned generator sets,
 1208 located more than 75 feet above the lowest level of Fire
 1209 Department vehicle access, or located at a floor level more than
 1210 30 feet below the lowest level of exit discharge, require the
 1211 approval of the fire code official.

1212 **[F] 2702.2 Where required.**

1213 Emergency and legally required standby power systems shall
 1214 be provided where required by Sections 2702.2.1 through
 1215 2702.2.18 and other sections of this code.

1216 **[F] 2702.2.1 Ambulatory care facilities.**

1217 Essential electrical systems for ambulatory care facilities shall
 1218 comply with Section 422.6.

1219 **[F] 2702.2.2 Elevators and platform lifts.**

1220 Legally required standby power shall be provided for elevators
 1221 and platform lifts used as accessible means of egress as
 1222 required in Sections 1009.4.1, 1009.5. Emergency power shall
 1223 be provided for elevators in high-rise buildings as required by
 1224 Table 2702.

1225 **[F] 2702.2.3 Emergency responder radio coverage**
 1226 **systems.**

- 1227 Legally Required standby power shall be provided for in-
1228 building 2-way emergency responder radio communication
1229 coverage systems required in Section 918 and the International
1230 Fire Code. The standby power supply shall be capable of
1231 operating the in-building 2-way emergency responder radio
1232 communication coverage system for a duration of not less than
1233 12 hours at 100-percent system operation capacity.
- 1234 **[F] 2702.2.4 Emergency voice/alarm communication**
1235 **systems.**
- 1236 Emergency power shall be provided for emergency voice/alarm
1237 communication systems as required in Section 907.5.2.2.5. The
1238 system shall be capable of powering the required load for a
1239 duration of not less than 24 hours, as required in NFPA 72.
- 1240 **[F] 2702.2.5 Exhaust systems.**
- 1241 Legally required standby power shall be provided for common
1242 exhaust systems for domestic kitchens located in multistory
1243 structures as required in Section 505.5 of the International
1244 Mechanical Code. Legally required standby power shall be
1245 provided for common exhaust systems for clothes dryers
1246 located in multistory structures as required in Section 504.10~~1~~
1247 of the International Mechanical Code and Section 614.10~~1~~ of
1248 the International Fuel Gas Code.
- 1249 **[F] 2702.2.6 Exit signs.**
- 1250 Emergency power shall be provided for exit signs as required in
1251 Section 1013.6.3. The system shall be capable of powering the
1252 required load for a duration of not less than 90 minutes.
- 1253 **[F] 2702.2.7 Gas detection system.**
- 1254 Emergency or legally required standby power shall be provided
1255 for gas detection systems in accordance with the International
1256 Fire Code.
- 1257 **[F] 2702.2.8 Group I-2 occupancies.**
- 1258 Essential electrical systems for Group I-2 occupancies shall be
1259 in accordance with Section 407.11.
- 1260 **[F] 2702.2.9 Group I-3 occupancies.**
- 1261 Emergency power shall be provided for power-operated doors
1262 and locks in Group I-3 occupancies as required in Section
1263 408.4.2.
- 1264 **[F] 2702.2.10 Hazardous materials.**

- 1265 Emergency or legally required standby power shall be provided
 1266 in occupancies with hazardous materials where required by the
 1267 International Fire Code.
- 1268 **[F] 2702.2.11 High-rise buildings.**
- 1269 Emergency and legally required standby power shall be
 1270 provided in high-rise buildings as required in Table 2702.
- 1271 **[F] 2702.2.12 Hydrogen fuel gas rooms.**
- 1272 Standby power shall be provided for hydrogen fuel gas rooms
 1273 as required by the International Fire Code.
- 1274 **[F] 2702.2.123 Laboratory suites.**
- 1275 Legally required standby or emergency power shall be provided
 1276 in accordance with Section 5004.7 of the International Fire
 1277 Code where laboratory suites are located above the sixth story
 1278 above grade plane or located in a story below grade plane.
- 1279 **[F] 2702.2.134 Means of egress illumination.**
- 1280 Emergency power shall be provided for means of egress
 1281 illumination as required in Section 1008.3. The system shall be
 1282 capable of powering the required load for a duration of not less
 1283 than 90 minutes.
- 1284 **[F] 2702.2.145 Membrane structures.**
- 1285 Legally required standby power shall be provided for auxiliary
 1286 inflation systems in permanent membrane structures as
 1287 required in Section 3102.8.2. Legally required standby power
 1288 shall be provided for a duration of not less than 4 hours.
 1289 Auxiliary inflation systems in temporary air-supported and air-
 1290 inflated membrane structures shall be provided in accordance
 1291 with Section 3103.10.4 of the International Fire Code.
- 1292 **[F] 2702.2.156 Semiconductor fabrication facilities.**
- 1293 Emergency power shall be provided for semiconductor
 1294 fabrication facilities as required in Section 415.11.10.
- 1295 **[F] 2702.2.167 Smoke control systems.**
- 1296 Emergency power shall be provided for smoke control systems
 1297 as required in Sections 404.7, 909.11, 909.20.6.2 and 909.21.5.
 1298 Legally required standby power systems shall be provided for
 1299 pressurization systems in low-rise buildings in accordance with
 1300 Washington State Building Code Section 504.4.1 and
 1301 International Building Code Sections 909.20.6 and 909.21.5.
- 1302 **[F] 2702.2.178 Special purpose horizontal sliding,**
 1303 **accordion or folding doors.**

1304 Legally required standby power shall be provided for special
 1305 purpose horizontal sliding, accordion or folding doors as
 1306 required in Section 1010.1.4.3. The standby power supply shall
 1307 have a capacity to operate not fewer than 50 closing cycles of
 1308 the door.

1309 **[F] 2702.2.189 Underground buildings.**

1310 Emergency and legally required power shall be provided in
 1311 underground buildings as required in Section 405.

1312 **[F] 2702.3 Critical circuits.**

1313 Critical circuits. Required critical circuits shall be protected
 1314 using one of the following methods:

1315 1. Cables, used for survivability of required critical circuits,
 1316 that are listed in accordance with UL 2196 and have a fire-
 1317 resistance rating of not less than 1 hour.

1318 2. Electrical circuit protective systems having a fire-
 1319 resistance rating of not less than 1 hour. Electrical circuit
 1320 protective systems are installed in accordance with their
 1321 listing requirements.

1322 3. Construction having a fire-resistance rating of not less
 1323 than 1 hour.

1324 **[F] 2702.4 Maintenance.**

1325 Emergency and legally required standby power systems shall
 1326 be maintained and tested in accordance with the International
 1327 Fire Code.

1328 **TABLE 2702**

1329 **LEGALLY REQUIRED STANDBY AND EMERGENCY POWER**
 1330

Type of Equipment	Maximum Time to Energize Loads	Maximum Run Time (Duration)	IBC Section	IFC or NFPA Section
Emergency Power Systems¹				
Exit illumination	10 seconds	2 hours	1013.6.3	604.2.9 High rises 604.2.16 Underground buildings 1013.6.3 Exit signs 3.4.2.13 Temporary tents, canopies, membrane structures NFPA 70

Type of Equipment	Maximum Time to Energize Loads	Maximum Run Time (Duration)	IBC Section	IFC or NFPA Section
Exit illumination	10 seconds	2 hours	1008.3	1008.3 604.2.9 High rises 604.2.16 Underground buildings
Any emergency voice/alarm communication including area of refuge communication systems (barrier-free and horizontal exits)	Per NFPA 72	24 hours (battery) 4 hours (generator)	402.7.3, 402.7.4, and 907.5.2.2 Covered mall buildings 403.4.8 and 907.5.2.2 High rises 405.8, and 907.5.2.2 Underground buildings 907.2.1, and 907.5.2.2 Assembly occupancies	907.2.19 Covered mall buildings 604.2.9 High rises 604.2.16 Underground buildings 907.2.1.1 Assembly occupancies 907.2.11 Special amusement building NFPA 72
Fire detection and fire alarms	Per NFPA 72	24 hours (battery) 4 hours (generator)	403.4.8 High rises 405.8 Underground buildings 909.20.6.2 Smokeproof enclosures 907	604.2.9 High rises 604.2.16 Underground buildings 907.6.2 907.2.11 Special amusement building NFPA 72
Smoke control systems in high-rise buildings, underground buildings and covered mall buildings including energy management systems if used for smoke control or smoke removal	60 seconds	2 hours	403.4.8 High rises 404.7 Atriums 405.8 Underground buildings 909.11 Smoke control	909.11 Emergency power
Fire pumps in high-rise buildings and underground buildings	10 seconds	8 hours (NFPA 20)	403.4.8 High rises 405.8 Underground buildings	604.2.9 High rises and NFPA 20 604.2.16 Underground buildings 913.2 All Fire Pumps
Smokeproof enclosures and elevator shaft pressurization	60 seconds for pressurization	4 hours	403.4.8 High rises 909 and 909.20.6.2	
Any shaft exhaust fans required to run continuously in lieu of	60 seconds	4 hours	717.5.3	

Type of Equipment	Maximum Time to Energize Loads	Maximum Run Time (Duration)	IBC Section	IFC or NFPA Section
dampers in high-rise and underground buildings.				
Fire service or occupant evacuation elevator car operation in high-rise and underground buildings (including control system, motor controller, operation control, signal equipment, machine room cooling-heating, etc.)			3003, 3007, and 3008	604.2.16 Underground buildings
Elevator car lighting and communications in high-rise and underground buildings	10 seconds	4 hours	3003, 3007, and 3008	604.2.9 High rises 304.2.16 Underground Buildings 604.2.1 Elevators
Lights, heating and cooling for building fire command center and mechanical equipment rooms serving the fire command center	60 seconds	24 hours		604.2.9 High rises
Power (other than lights, heating and cooling) for building fire command center	60 seconds	4 hours		
Mechanical and electrical systems required by IFC 27 (hazardous materials including UPS rooms)	60 seconds	4 hours		Chapter 27
Legally Required Standby¹				
Exhaust fans for any loading dock located interior to a building	60 seconds	4 hours		
Transfer vault ventilation equipment	60 seconds	4 hours		
Heat tape for sprinkler lines and heating in sprinkler riser rooms	60 seconds	24 hours		
Fuel pump system for any legally required system	60 seconds	4 hours		
<u>Elevators in high-rise or underground buildings used for accessible means of egress in other than high-rise and underground buildings)</u>	60 seconds	2 hours		
<u>Elevators (other than fire service or occupant evacuation elevators) in high-rise and underground</u>	<u>60 seconds</u>	<u>60 seconds</u>		

Type of Equipment	Maximum Time to Energize Loads	Maximum Run Time (Duration)	IBC Section	IFC or NFPA Section
<u>buildings</u>				
Any shaft exhaust fans required to run continuously in lieu of dampers (in other than high-rise and underground buildings)	60 seconds	4 hours	717.5.3	
Auxiliary inflation systems	60 seconds	2 hours	3102.8.2	3103.10.4
Special purpose horizontal sliding, accordion or folding doors	60 seconds	2 hours	1010.1.4.3	1010.1.4.3
<u>Hydrogen fuel gas rooms</u>	<u>60 seconds</u>	<u>2 hours</u>	<u>2702.2.12</u>	<u>5808.7 & 1203</u>
Firefighter air replenishment systems (FARS)	60 seconds	2 hours	919.7.2	919.7.2

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TABLE 2702 FOOTNOTE

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(1) The fuel pump and associated systems for the emergency or legally required generator shall be provided with power from the generator to maintain fuel supply.

Section 29. KMC 21.08.075 is amended to read as follows:

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1342

21.08.075 IBC Chapter 31 amended.

Chapter 31 of the IBC is amended and supplemented with the addition of a new Section 31156 to read as follows:

1343
1344

Section 31156 OVERWATER STRUCTURES, PIERS, WHARVES, AND BUILDINGS

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IBC 31156.1—General. Overwater structures, piers, wharves and buildings shall comply with the requirements of this section and other applicable sections of this code.

1348

IBC 31156.2—Definitions.

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OVERWATER STRUCTURES. For the purpose of this Chapter, overwater structures shall include all structures which have twenty percent (20%) or more of their area over water, or a structure which has 8,000 square feet over water.

- 1353 DOCK. A dock is a natural open or artificially closed basin in
 1354 which vessels may remain afloat when berthed at a wharf or
 1355 pier.
- 1356 PIER. A pier is a structure, usually of greater length than width,
 1357 of timber, stone, concrete or other material having a deck, and
 1358 projecting from the shore into navigable waters so that vessels
 1359 may be moored alongside for loading and unloading or for
 1360 storage or repairs.
- 1361 SUBSTRUCTURE. The substructure is that portion of the
 1362 construction below and including the deck.
- 1363 SUPERSTRUCTURE. The superstructure is that portion of the
 1364 construction above the deck.
- 1365 WHARF OR QUAY. A wharf or quay is a structure of timber,
 1366 stone, concrete or other material having a platform built along
 1367 and parallel to navigable waters so that vessels may be moored
 1368 alongside for loading and unloading, or for storage or repair.
- 1369 IBC Section 31156.3—Structures over water.
- 1370 No portion of any building or other structure supported by piers
 1371 or piling and extending over water shall be more than two
 1372 hundred fifty feet from an improved public street or alley giving
 1373 access thereto for fire engines and other firefighting equipment;
 1374 provided, however, that the foregoing limitation shall not apply
 1375 to any one-story structure used solely for the moorage of boats
 1376 and:
- 1377 (1) Of type 1 construction; or
- 1378 (2) Of type 2 construction; or
- 1379 (3) Having installed throughout the structure an approved
 1380 automatic sprinkler system.
- 1381 IBC Section 31156.4—Substructure.
- 1382 1. Draft Stops. Draft stops shall be installed in all
 1383 substructures constructed of combustible materials,
 1384 exclusive of piling and pile bracing. They shall be placed not
 1385 over one hundred feet (100') apart measured along the main
 1386 axis of the pier or wharf. They shall fit tightly around all joists,
 1387 beams, etc., and extend from the underside of the deck to
 1388 low water with a maximum required depth of 6 feet.
- 1389 EXCEPTION: Private docks which serve a single-family
 1390 dwelling unit.

1391 Substructure draft stops shall be constructed of not less
1392 than two (2) thicknesses of 2" nominal thickness lumber laid
1393 with broken joints or materials of equal fire resistance.

1394 2. Automatic Sprinklers. Automatic sprinklers shall be
1395 installed under the substructure of every overwater structure
1396 in accordance with the requirements of Chapter 9.

1397 EXCEPTIONS: Automatic sprinklers are not required
1398 under the following categories of substructure:

1399 a. Combustible substructures having superstructures of
1400 120 square feet or less in area.

1401 b. Noncombustible substructures with or without
1402 superstructures.

1403 c. Substructures resulting from walkways or finger piers
1404 when width does not exceed 10 feet.

1405 3. Dry Standpipes. When a distance of travel to fire
1406 apparatus access exceeds two hundred fifty (250) feet, an
1407 approved minimum four (4) inch dry standpipe with two and
1408 one-half (2-1/2) inch outlets at a maximum of one hundred
1409 (100) feet on center shall be provided. There shall be a
1410 Siamese connection at the shore end and direct access for
1411 Fire Department pumping apparatus shall be provided.
1412 Standards for installation to be set by the Director of Fire
1413 Services.

1414 Exception: Piers serving no more than one single-family
1415 dwelling.

1416 Section 30. KMC 21.10.010 is amended to read as follows:

1417

1418 **21.10.010 International Residential Code adopted.**

1419

1420 The ~~2018~~ 2021 Edition of the International Residential Code, as adopted
1421 by the State Building Code Council in Chapter 51-51 WAC, as published
1422 by the International Code Council, excluding Chapter 1,
1423 "Administration," is adopted, together with the following amendments.
1424 The Construction Administrative Code, as set forth in Chapter 21.06,
1425 shall be used in place of IRC Chapter 1, Administration.

1426

1427 Section 31. KMC 21.10.020 is amended to read as follows:

1428

1429 **21.10.020 IRC Table R301.2(4) amended.**

1430

1431 IRC Table R301.2(4) is amended to read:

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1433

TABLE R301.2(1)

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1435

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

ROOF SNOW LOAD _a (psf)	WIND-DESIGN				SEISMIC DESIGN CATEGORY _γ	SUBJECT TO DAMAGE FROM			OUTDOOR DESIGN TEMPERATURE (F) - Heat/Cool	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARD	AIR FREZING INDEX	MEAN ANNUAL TEMPERATURE
	Speed _b (mph)	Topographic effects _c	Special wind region	Wind borne debris zone		Weathering _d	Frost line depth	Termites					
25	110	Yes	No	No	D2	Moderate	12"	Slight to Moderate	83/17	No	N.A.	113	53
MANUAL J DESIGN CRITERIA													
Elevation		Latitude	Winter heating	Summer cooling	Altitude correction factor	Indoor design temperature	Design temperature cooling	Heating temperature difference					
154 feet		47°39'26"	72°F max	75°F min	0.99	72°F	75°F	45°F					
Cooling temperature difference		Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily range	Winter humidity	Summer humidity						
8°F		N.A.	N.A.	66	Medium	75%	68%						

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a. This is the minimum roof snow load. When using this snow load it will be left to the engineer's judgment whether to consider drift or sliding snow. However, rain on snow surcharge of 5 psf must be considered for roof slopes less than 5 degrees.

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b. Wind exposure category and Topographic effects (Wind Speed-up Kzt factor) shall be determined on a site-specific basis by the Engineer of Record (components and cladding need not consider topographic effects unless otherwise determined by the engineer of record).

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c. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.

1449
1450

d. The City of Kirkland participates in the National Flood Insurance Program (NFIP); Regular Program (No Special Flood Hazard Area).

1451

TABLE R301.2

1452

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD ^a (psf)	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARD ^e	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed ^b (mph)	Topographic effects ^c	Special wind region	Windborne debris zone		Weathering ^d	Frost line depth	Termite				
25	98	Yes	No	No	D2	Moderate	12"	Slight to Moderate	No	NA	113	53 °F
MANUAL J DESIGN CRITERIA												
Elevation	Altitude correction factor	Coincident wet bulb		Indoor winter design dry-bulb temperature	Indoor winter design dry-bulb temperature		Outdoor winter design dry-bulb temperature	Heating temperature difference				
338 feet	0.99	66 °F		72 °F	72 °F		24 °F	48 °F				
Latitude	Daily Range	Indoor summer design relative humidity		Summer design rain ^f 50% RH	Indoor summer design dry-bulb temperature		Outdoor summer design dry-bulb temperature	Cooling temperature difference				
47°39'28"	M	50%		5	75 °F		83 °F	8 °F				

1453

1454 a. This is the minimum roof snow load. When using this snow load it will
 1455 be left to the engineer's judgment whether to consider drift or sliding
 1456 snow. However, rain on snow surcharge of 5 psf must be considered for
 1457 roof slopes less than 5 degrees.

1458

1459 b. The basic wind speed is determined from the basic wind speed map
 1460 in Figure R301.2(2). Wind exposure category shall be determined on a
 1461 site-specific basis in accordance with Section R301.2.1.4.

1462

1463 c. Topographic effects (Wind Speed-up Kzt factor) shall be determined
 1464 on a site-specific basis in accordance with Section R301.2.1.5.

1465

1466 d. Weathering may require a higher strength concrete or grade of
 1467 masonry than necessary to satisfy the structural requirements of this
 1468 code. The grade of masonry units shall be determined from ASTM C34,
 1469 C55, C62, C73, C90, C129, C145, C216 or C652.

1470

1471 Section 32. KMC 21.10.025 is hereby repealed.

1472

1473 Section 33. KMC 21.16.010 is amended to read as follows:

1474

21.16.010 International Mechanical Code adopted.

1475

1476 The 2018 2021 Edition of the International Mechanical Code, as adopted
 1477 by the State Building Code Council in Chapter 51-52 WAC, as published
 1478 by the International Code Council, excluding Chapter 1,
 1479 "Administration," is adopted. The Construction Administrative Code, as
 1480 set forth in Chapter 21.06, shall be used in place of IMC Chapter 1,
 1481 Administration. References in this code to Group R shall include Group
 1482 I-1, Condition 2 assisted living facilities licensed by Washington State
 1483 under Chapter 388-78A WAC and Group I-1, Condition 2 residential
 1484 treatment facilities licensed by Washington State under Chapter 246-
 1485 337 WAC.
 1486

1487 Section 34. KMC 21.24.010 is amended to read as follows:

1488

1489 **21.24.010 Uniform Plumbing Code adopted.**

1490

1491 The ~~2018~~ 2021 Edition of the Uniform Plumbing Code, as adopted and
 1492 amended by the State Building Code Council in Chapters 51-56 ~~and 51-~~
 1493 ~~57~~ WAC, as published by the International Association of Plumbing and
 1494 Mechanical Officials, is adopted by reference with the following
 1495 additions, deletions, and exceptions. Provided that excluding Chapter 1,
 1496 "Administration," of the Uniform Plumbing Code is not adopted.
 1497 Provided, that Chapters 12 and 14 of the Uniform Plumbing Code are
 1498 not adopted. Provided, that those requirements of the Uniform Plumbing
 1499 Code relating to venting and combustion air of fuel-fired appliances as
 1500 found in Chapter 5 and those portions of the code addressing building
 1501 sewers are not adopted. ~~is adopted, together with Appendix Chapters~~
 1502 ~~A, "Recommended Rules for Sizing the Water Supply System," B,~~
 1503 ~~"Explanatory Notes on Combination Waste and Vent Systems," C,~~
 1504 ~~"Alternate Plumbing Systems," excluding Sections C5 through C7 of~~
 1505 ~~Appendix C, and I, "Installation Standards." The following appendices of~~
 1506 ~~the 2021 Edition of the Uniform Plumbing Code as adopted and~~
 1507 ~~amended by the State Building Code Council, as published by the~~
 1508 ~~International Association of Plumbing and Mechanical Officials, are also~~
 1509 ~~adopted by reference: Appendix A — Recommended Rules for Sizing~~
 1510 ~~the Water Supply System; Appendix B — Explanatory Notes on~~
 1511 ~~Combination Waste and Vent Systems; Appendix C — Alternate~~
 1512 ~~Plumbing Systems, excluding Sections C303.3, C304.0 through~~
 1513 ~~C601.9; Appendix I — Installation Standards.~~

1514 Conflicts. Where a conflict exists between the provisions of
 1515 Appendix I and the manufacturer's installation instructions, the
 1516 conditions of the listing and the manufacturer's installation instructions
 1517 shall apply.

1518

1519 Section 35. KMC 21.28.010 is amended to read as follows:

1520

1521 **21.28.010 National Fuel Gas Code (NFPA 54) adopted.**

1522

1523 The ~~2018~~ 2021 Edition of the National Fuel Gas Code, as adopted by
 1524 the State Building Code Council in Chapter 51-52 WAC, as published
 1525 by NFPA, is adopted.

1526

1527 Section 36. KMC 21.32.010 is amended to read as follows:

1528

1529 **21.32.010 Liquefied Petroleum Gas Code (NFPA 58) adopted.**

1530

1531 The ~~2017~~ 2020 Edition of the Liquefied Petroleum Gas Code, as
 1532 adopted by the State Building Code Council in Chapter 51-52 WAC, as
 1533 published by NFPA, is adopted.

1534 Section 37. KMC 21.34.015 is amended to read as follows:

1535

1536 **21.34.015 Duty to establish.**

1537

1538 It shall be the duty of the owner, or designated agent, of any commercial
1539 property to designate and maintain at all times any required fire lanes
1540 appurtenant to structures. Designation and maintenance shall include
1541 the installation and maintenance of signs, curb, and pavement markings
1542 identifying the fire lane as required by the fire code official. The signs,
1543 curb, and pavement markings shall be in a format approved by the fire
1544 department.

1545 (1) Designated fire lanes serving single-family residences shall be
1546 maintained at all times.

1547 (2) Any duties imposed upon "owner" within this chapter shall be
1548 imposed upon each owner, in reference to single-family residences
1549 serviced by a designated fire lane. Likewise, any charge or lien
1550 authorized against an owner in this chapter shall be authorized against
1551 each such owner on an apportioned basis.

1552

1553 Section 38. KMC 21.36.010 is amended to read as follows:

1554

1555 **21.36.010 International Fuel Gas Code adopted.**

1556

1557 The ~~2018~~ 2021 Edition of the International Fuel Gas Code, as adopted
1558 by the State Building Code Council in Chapter 51-52 WAC, as published
1559 by the International Code Council, excluding Chapter 1,
1560 "Administration," is adopted.

1561

1562 Section 39. KMC 21.37.010 is amended to read as follows:

1563

1564 **21.37.010 Washington State Energy Code adopted.**

1565

1566 The 2021 Washington State Energy Code (WSEC), as adopted by the
1567 State Building Code Council in Chapters 51-11C and 51-11R WAC, and
1568 hereafter amended, is adopted. The Construction Administrative Code,
1569 as set forth in Chapter 21.06, shall be used for the administration of the
1570 Washington State Energy Code.

1571 ~~(1) Sections R107, Fees; R108, Stop work order; R109, Board~~
1572 ~~of appeals; R110, Violations; and R111, Liability, are not~~
1573 ~~adopted.~~

1574 ~~(2) Sections C104, C106, C107, Fees; C108, Stop work order;~~
1575 ~~C109, Board of appeals; C110, Violations; and C111, Liability,~~
1576 ~~are not adopted.~~

1577 Section 40. KMC 21.37.020 is amended to read as follows:

1578

1579 **21.37.020 Copies on file.**

1580

1581 ~~The city shall at all times keep on file with the city clerk, for reference by~~
1582 ~~the general public, not less than one copy of the International Energy~~
1583 ~~Conservation Code. The codes, appendices, and standards set forth in~~
1584 ~~this chapter shall be filed with the city clerk and a copy made available~~
1585 ~~for use and examination by the public.~~

1586

1587 Section 41. KMC 21.41.102 is amended to read as follows:

1588

1589 **21.41.102 Applicability.**

1590

1591 (a) General. Where there is a conflict between a general requirement
1592 and a specific requirement, the specific requirement shall govern.
1593 Where differences occur between provisions of this code and the
1594 referenced standards, the provisions of this code shall apply. Where, in
1595 a specific case, different sections of this code specify different
1596 requirements, the most restrictive shall govern.

1597 (b) Maintenance. Equipment, systems, devices and safeguards
1598 required by this code or a previous regulation or code under which the
1599 structure or premises was constructed, altered or repaired shall be
1600 maintained in good working order. No owner, owner's authorized agent,
1601 operator or occupant shall cause any service, facility, equipment or
1602 utility that is required under this section to be removed from, shut off
1603 from or discontinued for any occupied dwelling, except for such
1604 temporary interruption as necessary while repairs or alterations are in
1605 progress. The requirements of this code are not intended to provide the
1606 basis for removal or abrogation of fire protection and safety systems and
1607 devices in existing structures. Except as otherwise specified herein, the
1608 owner or the owner's authorized agent shall be responsible for the
1609 maintenance of buildings, structures and premises.

1610 (c) Application of Other Codes. Repairs, additions or alterations to a
1611 structure, or changes of occupancy, shall be done in accordance with
1612 the procedures and provisions of the Kirkland Municipal Code and the
1613 Kirkland Zoning Code.

1614 (d) Existing Remedies. The provisions in this code shall not be
1615 construed to abolish or impair existing remedies of the jurisdiction or its
1616 officers or agencies relating to the removal or demolition of any structure
1617 that is dangerous, unsafe and insanitary.

1618 (e) Workmanship. Repairs, maintenance work, alterations or
1619 installations that are caused directly or indirectly by the enforcement of
1620 this code shall be executed and installed in a workmanlike manner and
1621 installed in accordance with the manufacturer's installation instructions.

1622 (f) Historic Buildings. The provisions of this code shall not be mandatory
1623 for existing buildings or structures designated as historic buildings, as

1624 defined in the International Existing Building Code, where such buildings
 1625 or structures are judged by the code official to be safe and in the public
 1626 interest of health, safety and welfare.

1627 (g) Referenced Codes and Standards. The codes and standards
 1628 referenced in this code shall be those that are listed in Article VIII of this
 1629 chapter and amended by the State and the City and considered part of
 1630 the requirements of this code to the prescribed extent of each such
 1631 reference. Where differences occur between provisions of this code and
 1632 the referenced standards, the provisions of this code shall apply.

1633 Exception: Where enforcement of a code provision would violate
 1634 the conditions of the listing of the equipment or appliance, the
 1635 conditions of the listing shall apply.

1636 (h) Requirements Not Covered by Code. Requirements necessary for
 1637 the strength, stability or proper operation of an existing fixture, structure
 1638 or equipment, or for the public safety, health and general welfare, not
 1639 specifically covered by this code, shall be determined by the code
 1640 official.

1641 (i) Application of References. References to chapter or section
 1642 numbers, or to provisions not specifically identified by number, shall be
 1643 construed to refer to such chapter, section or provision of this code.

1644 (j) Other Laws. The provisions of this code shall not be deemed to nullify
 1645 any provisions of local, state or federal law.

1646 Section 42. KMC 21.41.303 is amended to read as follows:

1647

1648

1649

21.41.303 Swimming pools, spas and hot tubs.

1650

1651 (a) Swimming Pools. Swimming pools shall be maintained in a clean
 1652 and sanitary condition, and in good repair.

1653 (b) Enclosures. Private swimming pools, hot tubs and spas, containing
 1654 water more than twenty-four inches (six hundred ten millimeters) in
 1655 depth shall be completely surrounded by a fence or barrier not less than
 1656 forty-eight inches (one thousand two hundred nineteen millimeters) in
 1657 height above the finished ground level measured on the side of the
 1658 barrier away from the pool. Openings in the barrier shall not allow
 1659 passage of a 4-inch-diameter sphere. Gates and doors in such barriers
 1660 shall be self-closing and self-latching. Where the self-latching device is
 1661 less than fifty-four inches (one thousand three hundred seventy-two
 1662 millimeters) above the bottom of the gate, the release mechanism shall
 1663 be located on the pool side of the gate. Self-closing and self-latching
 1664 gates shall be maintained such that the gate will positively close and
 1665 latch when released from an open position of six inches (one hundred
 1666 fifty-two millimeters) from the gatepost. No existing pool enclosure shall
 1667 be removed, replaced or changed in a manner that reduces its
 1668 effectiveness as a safety barrier.

1669 Exception: Spas or hot tubs with a safety cover that complies with ASTM
 1670 F1346 shall be exempt from the provisions of this section.

1671

1672 Section 43. KMC 21.41.402 is amended to read as follows:

1673

1674 **21.41.402 Light.**

1675

1676 (a) Habitable Spaces. Every habitable space shall have not less than
 1677 one window of approved size facing directly to the outdoors or to a court.
 1678 The minimum total glazed area for every habitable space shall be eight
 1679 percent of the floor area of such room. Wherever walls or other portions
 1680 of a structure face a window of any room and such obstructions are
 1681 located less than three feet (nine hundred fourteen millimeters) from the
 1682 window and extend to a level above that of the ceiling of the room, such
 1683 window shall not be deemed to face directly to the outdoors nor to a
 1684 court and shall not be included as contributing to the required minimum
 1685 total window area for the room.

1686

Exceptions

1687 (1) Where natural light for rooms or spaces without exterior
 1688 glazing areas is provided through an adjoining room, the
 1689 unobstructed opening to the adjoining room shall be not less
 1690 than eight percent of the floor area of the interior room or space,
 1691 but not less than twenty-five square feet (2.33 square meters).
 1692 The exterior glazing area shall be based on the total floor area
 1693 being served.

1694 (2) The glazed areas need not be installed in rooms where
 1695 artificial light is provided capable of producing an average
 1696 illumination of 6 footcandles (65 lux) over the area of the room
 1697 at a height of 30 inches above the floor level.

1698 (b) Common Halls and Stairways. Every common hall and stairway in
 1699 residential occupancies, other than in one- and two-family dwellings,
 1700 shall be lighted at all times with not less than a sixty-watt standard
 1701 incandescent light bulb for each two hundred square feet (nineteen
 1702 square meters) of floor area or equivalent illumination; provided, that the
 1703 spacing between lights shall not be greater than thirty feet (nine
 1704 thousand one hundred forty-four millimeters). In other than residential
 1705 occupancies, means of egress, including exterior means of egress, and
 1706 stairways shall be illuminated at all times the building space served by
 1707 the means of egress is occupied with not less than one foot candle
 1708 (eleven lux) at floors, landings and treads.

1709 (c) Other Spaces. All other spaces shall be provided with natural or
 1710 artificial light sufficient to permit the maintenance of sanitary conditions,
 1711 and the safe occupancy of the space and utilization of the appliances,
 1712 equipment and fixtures.

1713 Section 44. Kirkland Municipal Code Section 21.41.403 is
1714 amended to read as follows:

1715
1716 **21.41.403 Ventilation.**
1717

1718 (a) Habitable Spaces. Every habitable space shall have not less than
1719 one openable window. The total openable area of the window in every
1720 room shall be equal to not less than forty-five percent of the minimum
1721 glazed area required in Section 21.41.402(a).

1722 Exceptions:

1723 (1) Where rooms and spaces without openings to the outdoors
1724 are ventilated through an adjoining room, the unobstructed
1725 opening to the adjoining room shall be not less than eight percent
1726 of the floor area of the interior room or space, but not less than
1727 twenty-five square feet (2.33 square meters). The ventilation
1728 openings to the outdoors shall be based on a total floor area
1729 being ventilated.

1730 (2) Dwelling units equipped with local exhaust and whole house
1731 ventilation systems designed and installed as specified in
1732 Section M1505 of the International Residential Code or
1733 equivalent.
1734

1735 (b) Bathrooms and Toilet Rooms. Every bathroom and toilet room shall
1736 comply with the ventilation requirements for habitable spaces as
1737 required by subsection (a) of this section, except that a window shall not
1738 be required in such spaces equipped with a mechanical ventilation
1739 system. Air exhausted by a mechanical ventilation system from a
1740 bathroom or toilet room shall discharge to the outdoors and shall not be
1741 recirculated.

1742 (c) Cooking Facilities. Unless approved through the certificate of
1743 occupancy, cooking shall not be permitted in any rooming unit or
1744 dormitory unit, and a cooking facility or appliance shall not be permitted
1745 to be present in the rooming unit or dormitory unit.

1746 Exceptions:

1747 (1) Where specifically approved in writing by the code official.

1748 (2) Devices such as coffee pots and microwave ovens shall not
1749 be considered cooking appliances.

1750 (d) Process Ventilation. Where injurious, toxic, irritating or noxious
1751 fumes, gases, dusts or mists are generated, a local exhaust ventilation
1752 system shall be provided to remove the contaminating agent at the
1753 source. Air shall be exhausted to the exterior and not be recirculated to
1754 any space.

1755 (e) Clothes Dryer Exhaust. Clothes dryer exhaust systems shall be
 1756 independent of all other systems and shall be exhausted outside the
 1757 structure in accordance with the manufacturer's instructions.

1758 Exception: Listed and labeled condensing (ductless) clothes dryers.

1759

1760 Section 45. KMC 21.41.404 is amended to read as follows:

1761

1762 **21.41.404 Occupancy limitations.**

1763

1764 (a) Privacy. Dwelling units, hotel units, housekeeping units, rooming
 1765 units and dormitory units shall be arranged to provide privacy and be
 1766 separate from other adjoining spaces.

1767 (b) Minimum Room Widths. A habitable room, other than a kitchen, shall
 1768 not be less than seven feet (two thousand one hundred thirty-four
 1769 millimeters) in any plan dimension. Kitchens shall have a clear
 1770 passageway of not less than three feet (nine hundred fourteen
 1771 millimeters) between counter fronts and appliances or counter fronts
 1772 and walls.

1773 (c) Minimum Ceiling Heights. Habitable spaces, hallways, corridors,
 1774 laundry areas, bathrooms, toilet rooms and habitable basement areas
 1775 shall have a clear ceiling height of not less than seven feet (two
 1776 thousand one hundred thirty-four millimeters).

1777 Exceptions:

1778 (1) In one- and two-family dwellings, beams or girders spaced
 1779 not less than four feet (one thousand two hundred nineteen
 1780 millimeters) on center and projecting not more than six inches
 1781 (one hundred fifty-two millimeters) below the required ceiling
 1782 height.

1783 (2) Basement rooms in one- and two-family dwellings occupied
 1784 exclusively for laundry, study or recreation purposes, having a
 1785 ceiling height of not less than six feet eight inches (two thousand
 1786 thirty-three millimeters) with not less than six feet four inches
 1787 (one thousand nine hundred thirty-two millimeters) of clear
 1788 height under beams, girders, ducts and similar obstructions.

1789 (3) Rooms occupied exclusively for sleeping, study or similar
 1790 purposes and having a sloped ceiling over all or part of the room,
 1791 with a clear ceiling height of at least seven feet (two thousand
 1792 one hundred thirty-four millimeters) over not less than one-third
 1793 of the required minimum floor area. In calculating the floor area
 1794 of such rooms, only those portions of the floor area with a clear
 1795 ceiling height of five feet (one thousand five hundred twenty-four
 1796 millimeters) or more shall be included.

1797 (d) Bedroom and Living Room Requirements. Every bedroom and living
 1798 room shall comply with the requirements of subsections (d)(1) through
 1799 (d)(5) of this section.

1800 (1) ~~Room Area. Every living room shall contain at least one~~
 1801 ~~hundred twenty square feet (11.2 square meters) and every~~
 1802 ~~bedroom shall contain at least seventy square feet (6.5 square~~
 1803 ~~meters). Every habitable room except kitchens shall contain at~~
 1804 ~~least 70 square feet.~~

1805 (2) Access from Bedrooms. Bedrooms shall not constitute the
 1806 only means of access to other bedrooms or habitable spaces
 1807 and shall not serve as the only means of egress from other
 1808 habitable spaces.

1809 Exception: Units that contain fewer than two bedrooms.

1810 (3) Water Closet Accessibility. Every bedroom shall have
 1811 access to not less than one water closet and one lavatory without
 1812 passing through another bedroom. Every bedroom in a dwelling
 1813 unit shall have access to not less than one water closet and
 1814 lavatory located in the same story as the bedroom or an adjacent
 1815 story.

1816 (4) Prohibited Occupancy. Kitchens and nonhabitable spaces
 1817 shall not be used for sleeping purposes.

1818 (5) Other Requirements. Bedrooms shall comply with the
 1819 applicable provisions of this code including, but not limited to, the
 1820 light, ventilation, room area, ceiling height and room width
 1821 requirements of this article; the plumbing facilities and water-
 1822 heating facilities requirements of Article V; the heating facilities
 1823 and electrical receptacle requirements of Article VI; and the
 1824 smoke detector and emergency escape requirements of Article
 1825 VII of this chapter.

1826 (e) Overcrowding. The number of persons occupying a dwelling unit
 1827 shall not create conditions that, in the opinion of the code official,
 1828 endanger the life, health, safety or welfare of the occupants.

1829 (f) Efficiency Unit. Nothing in this section shall prohibit an efficiency
 1830 living unit from meeting the following requirements:

1831 (1) A unit occupied by not more than two occupants shall have
 1832 a clear floor area of not less than two hundred twenty square feet
 1833 (20.4 square meters). A unit occupied by three occupants shall
 1834 have a clear floor area of not less than three hundred twenty
 1835 square feet (29.7 square meters). These required areas shall be
 1836 exclusive of the areas required by subsections (f)(2) and (3) of
 1837 this section.

1838 (2) The unit shall be provided with a kitchen sink, cooking
 1839 appliance and refrigeration facilities, each having a clear working
 1840 space of not less than thirty inches (seven hundred sixty-two
 1841 millimeters) in front. Light and ventilation conforming to this code
 1842 shall be provided.

1843 (3) The unit shall be provided with a separate bathroom
1844 containing a water closet, lavatory and bathtub or shower.

1845 (4) The maximum number of occupants shall be three.

1846 (g) Food Preparation. All spaces to be occupied for food preparation
1847 purposes shall contain suitable space and equipment to store, prepare
1848 and serve foods in a sanitary manner. There shall be adequate facilities
1849 and services for the sanitary disposal of food wastes and refuse,
1850 including facilities for temporary storage.

1851

1852 Section 46. KMC 21.41.502 is amended to read as follows:

1853

1854 **21.41.502 Required facilities.**

1855

1856 (a) Dwelling Units. Every dwelling unit shall contain its own bathtub or
1857 shower, lavatory, water closet and kitchen sink that shall be maintained
1858 in a sanitary, safe working condition. The lavatory shall be placed in the
1859 same room as the water closet or located in close proximity to the door
1860 leading directly into the room in which such water closet is located. A
1861 kitchen sink shall not be used as a substitute for the required lavatory.

1862 (b) Rooming Houses. Not less than one water closet, lavatory and
1863 bathtub or shower shall be supplied for each four rooming units.

1864 (c) Hotels. Where private water closets, lavatories and baths are not
1865 provided, one water closet, one lavatory and one bathtub or shower
1866 having access from a public hallway shall be provided for each ten
1867 occupants.

1868 ~~(d) Employees' Facilities. Not less than one water closet, one lavatory~~
1869 ~~and one drinking facility shall be available to employees.~~

1870 ~~(1) Drinking Facilities. Drinking facilities shall be a drinking~~
1871 ~~fountain, water cooler, bottled water cooler or disposable cups~~
1872 ~~next to a sink or water dispenser. Drinking facilities shall not be~~
1873 ~~located in toilet rooms or bathrooms.~~

1874 ~~(de)~~ Public Toilet Facilities. Public toilet facilities shall be maintained in
1875 a safe, sanitary and working condition in accordance with Chapter
1876 21.24. Except for periodic maintenance or cleaning, public access and
1877 use shall be provided to the toilet facilities at all times during occupancy
1878 of the premises.

1879

1880 Section 47. KMC 21.41.504 is amended to read as follows:

1881

1882 **21.41.504 Plumbing systems and fixtures.**

1883

1884 (a) General. Plumbing fixtures shall be properly installed and
1885 maintained in working order, and shall be kept free from obstructions,
1886 leaks and defects and be capable of performing the function for which
1887 such plumbing fixtures are designed. Plumbing shall be maintained in a
1888 safe, sanitary and functional condition.

1889 (b) Fixture Clearances. Plumbing fixtures shall have adequate
1890 clearances for usage and cleaning.

1891 (c) Plumbing System Hazards. Where it is found that a plumbing
1892 system in a structure constitutes a hazard to the occupants or the
1893 structure by reason of inadequate service, inadequate venting, cross
1894 connection, back_siphonage, improper installation, deterioration or
1895 damage or for similar reasons, the code official shall is authorized to
1896 require the defects to be corrected to eliminate the hazard.

1897

1898 Section 48. KMC 21.41.604 is amended to read as follows:

1899

1900 **21.41.604 Electrical facilities.**

1901

1902 (a) Facilities Required. Every occupied building shall be provided with
1903 an electrical system in compliance with the requirements of this section
1904 and Section 21.41.605.

1905 (b) Service. The size and usage of appliances and equipment shall
1906 serve as a basis for determining the need for additional facilities in
1907 accordance with Chapter 21.70. Dwelling units shall be served by a
1908 three-wire, one-hundred-twenty/two-hundred-forty volt, single-phase
1909 electrical service having a rating of not less than sixty amperes.

1910 (c) Electrical System Hazards. Where it is found that the electrical
1911 system in a structure constitutes a hazard to the occupants or the
1912 structure by reason of inadequate service, improper fusing, insufficient
1913 receptacle and lighting outlets, improper wiring or installation,
1914 deterioration or damage, or for similar reasons, the code official shall
1915 require the defects to be corrected to eliminate the hazard in compliance
1916 with the latest edition of the Washington Cities Electrical Code or the
1917 State Electrical Code.

1918 (1) Abatement of Electrical Hazards Associated with Water
1919 Exposure. Electrical equipment and wiring that have been
1920 submerged or exposed to water shall comply with the provisions
1921 of Chapter 21.70.

1922 (2) Abatement of Electrical Hazards Associated with Fire
1923 Exposure. Electrical equipment and wiring that have been
1924 submerged or exposed to fire shall comply with the provisions of
1925 Chapter 21.70.

1926 Exception: Electrical switches, receptacles and fixtures that shall be
1927 allowed to be repaired where an inspection report from the equipment
1928 manufacturer or approved manufacturer's representative indicates that
1929 the equipment has not sustained damage that requires replacement.

1930 Section 49. KMC 21.46.010 is amended to read as follows:

1931

1932 **21.46.010 International Existing Building Code adopted.**

1933

1934 The ~~2018~~ 2021 International Existing Building Code (IEBC) is included
 1935 in the adoption of the International Building Code as provided by IBC
 1936 Section 101.4.7 and amended in WAC 51-50-480000, including
 1937 Appendix A, Guidelines for the Seismic Retrofit of Existing Buildings,
 1938 excluding Chapter 1, Part 2—Administration. Provided the Washington
 1939 State Energy Code and the International Wildland-Urban Interface Code
 1940 shall be regulated by their respective provisions for existing buildings.
 1941 Provided, that work regulated by this code is also regulated by the
 1942 construction requirements for existing buildings within Chapter 11 of the
 1943 International Fire Code, and such work shall comply with applicable
 1944 requirements in both codes.

1945

1946 Section 50. KMC 21.48.010 is amended to read as follows:

1947

1948 **21.48.010 International Swimming Pool and Spa Code adopted.**

1949

1950 ~~The 2018 Edition of the International Swimming Pool and Spa Code~~
 1951 ~~(ISPSA), as published by ICC, is adopted. Sections 103, Department of~~
 1952 ~~Building Safety; 104, Duties and Powers of the Code Official; 105,~~
 1953 ~~Permits; 106, Inspections; 107, Violations; 108, Means of Appeal; 303,~~
 1954 ~~Energy; and 304, Flood Hazard Areas; are not adopted. The 2021~~
 1955 Edition of the International Swimming Pool and Spa Code, as adopted
 1956 by the State Building Code Council in Chapter 51-50 WAC as included
 1957 in the adoption of the International Building Code as provided by
 1958 International Building Code Section 3109 and amended in WAC 51-50-
 1959 3109 and as provided by International Residential Code Section R327
 1960 and amended in WAC 51-51-0327, as published by the International
 1961 Code Council, excluding Chapter 1, "Scope and Administration," is
 1962 adopted.

1963

1964 Section 51. A new chapter, entitled "International Wildland-
 1965 Urban Interface Code," shall be codified and added to Title 21 as chapter
 1966 21.50.

1967

1968 Section 52. A new section shall be added to chapter 21.50 KMC,
 1969 to be codified as KMC 21.50.010, to read as follows:

1970

1971 **21.50.010 Adoption.**

1972

1973 The 2021 edition of the International Wildland-Urban-Interface Code
 1974 (IWUIC), as adopted and amended by the State Building Code Council
 1975 in Chapter 51-55 WAC, as published by the International Code Council,
 1976 is adopted by reference, together with the following exceptions,
 1977 amendments, and additions. Chapter 1, Scope and Administration, of
 1978 the IWUIC is not adopted, and the Construction Administrative Code, as
 1979 set forth in chapter 21.06 KMC, shall be used in its place, except as
 1980 provisions of IWUIC Chapter 1 are expressly adopted in this chapter.
 1981 The codes, appendices, and standards set forth in this chapter shall be

1982 filed with the city clerk and a copy made available for use and
1983 examination by the public, pursuant to RCW 35A.12.140.
1984

1985 Section 53. A new section shall be added to chapter 21.50 KMC,
1986 to be codified as KMC 21.50.020, to read as follows:
1987

1988 **21.50.020 Amendments and additions.**
1989

1990 The following provisions of IWUIC Chapter 1 are expressly adopted:
1991

1992 (a) 101.2 Scope. The provisions of this code shall apply to the
1993 construction, alteration, movement, repair, maintenance and use of any
1994 building, structure, or premises within the wildland-urban interface areas
1995 in this jurisdiction. Buildings or conditions in existence at the time of the
1996 adoption of this code are allowed to have their use or occupancy
1997 continued, if such condition, use or occupancy was legal at the time of
1998 the adoption of this code, provided that such continued use does not
1999 constitute an egregious danger to life or property. Buildings or structures
2000 moved into or within the jurisdiction shall comply with the provisions of
2001 this code for new buildings or structures.
2002

2003 (b) 101.4 Retroactivity. The provisions of the code shall apply to
2004 conditions arising after the adoption thereof, conditions not legally in
2005 existence at the adoption of this code and conditions that, as determined
2006 by the code official, constitute an egregious hazard to life or property.
2007

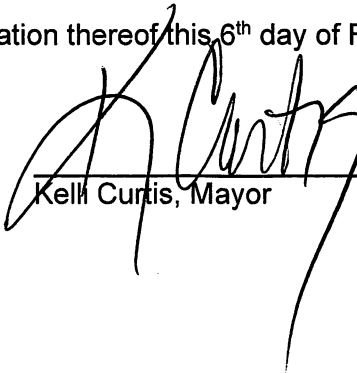
2008 Exception: Provisions of this code that specifically apply to
2009 existing conditions are retroactive.
2010

2011 Section 54. If any provision of this ordinance or its application to
2012 any person or circumstance is held invalid, the remainder of the
2013 ordinance or the application of the provision to other persons or
2014 circumstances is not affected.
2015

2016 Section 55. This ordinance shall be in force and effect on
2017 October 29, 2023, after its passage by the Kirkland City Council and
2018 publication pursuant to Section 1.08.017, Kirkland Municipal Code in the
2019 summary form attached to the original of this ordinance and by this
2020 reference approved by the City Council.
2021

2022 Passed by majority vote of the Kirkland City Council in open
2023 meeting this 6th day of February, 2024.
2024

2025 Signed in authentication thereof this 6th day of February, 2024.



Kelli Curtis, Mayor

Attest:

Kathi Anderson
Kathi Anderson, City Clerk

Approved as to Form:

Kevin Raymond
Kevin Raymond, City Attorney

PUBLICATION SUMMARY
OF ORDINANCE NO. 4848

AN ORDINANCE OF THE CITY OF KIRKLAND RELATING TO THE CITY'S BUILDING AND CONSTRUCTION CODES AND AMENDING TITLE 21 OF THE KIRKLAND MUNICIPAL CODE.

- 1 Sections 1 - 25. Amends and adds new sections to Chapter
- 2 21.06 of the Kirkland Municipal Code (KMC) relating to the Construction
- 3 Administrative Code.
- 4
- 5 Sections 26 - 29. Amends sections of Chapter 21.08 of the KMC
- 6 relating to the International Building Code.
- 7
- 8 Sections 30- 31. Amends sections of Chapter 21.10 of the KMC
- 9 relating to the International Residential Code.
- 10
- 11 Section 32. Repeals Section 21.10.025 of the KMC.
- 12
- 13 Section 33. Amends Section 21.16.010 of the KMC relating to
- 14 the International Mechanical Code.
- 15
- 16 Section 34. Amends Section 21.24.010 of the KMC relating to
- 17 the Uniform Plumbing Code.
- 18
- 19 Section 35. Amends Section 21.28.010 of the KMC relating to
- 20 the National Fuel Gas Code.
- 21
- 22 Section 36. Amends Section 21.32.010 of the KMC relating to
- 23 the Liquefied Petroleum Gas Code.
- 24
- 25 Section 37. Amends Section 21.34.015 of the KMC relating to
- 26 fire lanes.
- 27
- 28 Section 38. Amends Section 21.36.010 of the KMC relating to
- 29 the International Fuel Gas Code.
- 30
- 31 Sections 39 - 40. Amends sections of Chapter 21.37 of the KMC
- 32 relating to the Washington State Energy Code.
- 33
- 34 Sections 41 - 48. Amends sections of Chapter 21.41 of the KMC
- 35 relating to the Kirkland Property Maintenance Code.
- 36
- 37 Section 49. Amends Section 21.46.010 of the KMC relating to
- 38 the International Existing Building Code.
- 39
- 40 Section 50. Amends Section 21.48.010 of the KMC related to the
- 41 International Swimming Pool and Spa Code.
- 42
- 43 Section 51-53. Adds a new Chapter 21.50 to the KMC relating to
- 44 the International Wildland-Urban Interface Code.
- 45

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Section 54. Provides a severability clause for the ordinance.

Section 55. Authorizes publication of the ordinance by summary pursuant to KMC 1.08.017 and establishes the effective date as October 29, 2023, after publication of summary.

The full text of this Ordinance will be mailed without charge to any person upon request made to the City Clerk for the City of Kirkland. The Ordinance was passed by the Kirkland City Council at its meeting on the 6th day of February, 2024.

I certify that the foregoing is a summary of Ordinance 4848 approved by the Kirkland City Council for summary publication.



Kathi Anderson, City Clerk