

Summary of Changes for the 2021 Washington State Energy Code, Residential Provisions

Please Note: Sections that had no changes are not shown in this filing and remain in effect as shown in the 2018 Washington State Energy Code.

	PROPOSED SECTION AND TITLE	TYPE OF CHANGE	DESCRIPTION
1.	R101.1 Title	Editorial / Administrative	Adds an effective date along with the effective edition of the code, to correlate with the format of the other state codes adopted.
2.	R102.1 General (Alternative materials, design and methods of construction)	2021 IECC Change	Added language requires that requests for alternates be made in writing, and that the responses to those requests are also in writing.
3.	R103.1 General (Construction documents)	2021 IECC Change	New language allows for construction documents to be submitted in digital format where allowed by the code official.
4.	R103.2 Information on construction documents	2021 IECC Change	Added requirement that the compliance path being used be included in the submittal documents.
5.	R104 Fees	2021 IECC Change	Fees was renumbered as R104 up from R107. R104.2 was slightly modified to add "Where a permit is required,..." to the beginning of the section. The previous R104, Inspections, was renumbered as R105.
6.	R105 Inspections	2021 IECC Change	This section was renumbered from R104. The previous R104.7 and R104.7.1 were moved into a new Section R106, Notice of approval. The previous R105, Validity, was renumbered as R107.
7.	R106 Notice of approval	2021 IECC Change	Renumbering change only. These two sections were previously under R104, Inspections but were moved to their own section for consistency with other I-codes. The previous R106, Reference standards, was moved to R108.
8.	R107 Validity	2021 IECC Change	No change, renumbering only. The previous R107, Fees, was moved to R104.
9.	R108 Reference standards	2021 IECC Change	This section was moved from R106 to R108. No other changes were made. The previous R108, Stop work order, was moved to R109.
10.	R109 Stop work order	2021 IECC Change	This section was moved from R108 to R109. No other changes were made. The previous R109, Board of appeals, was moved to R110.
11.	R110 Board of appeals	2021 IECC Change	This section was moved from R109 to R110. No other changes were made. The previous R110, Violations, was moved to R111.

12.	R111 Violations	2021 IECC Change	This section was moved from R110 to R111. No other changes were made. The previous R111, Liability, was moved to R112.
13.	R112 Liability	2021 IECC Change	This section was moved from R111 to R112. No other changes were made.
14.	R202 Definition “Access”	2021 IECC Change	This definition was revised to be consistent with the changes made in other codes last cycle to change the term “accessible” to “access” when used in reference to repair or maintenance access.
15.	R202 Definition “Air-impermeable insulation”	2021 IECC Change	This definition was removed/relocated to Section R303.1.5.
16.	R202 Definition “Cavity insulation”	2021 IECC Change	This definition was added for clarity. To note that cavity insulation and continuous insulation relate to location rather than material type.
17.	R202 Definition “Demand recirculation water system”	2021 IECC Change	The definition was revised for consistency with the other I-codes.
18.	R202 Definition “Dimmer”	2021 IECC Change	This definition was added to support the lighting control changes in Section R404.
19.	R202 Definition “Dwelling unit enclosure area”	2021 IECC Change	This new definition was added to guidance in calculating the air leakage rate in Section R402.4.
20.	R202 Definition “Fenestration/ Skylight”	2021 IECC Change	The definition of skylight was modified to include other sloped glazing and products included in the category of “skylight.”
21.	R202 Definition “High efficacy light sources”	2021 IECC Change	The definition was updated to cover updates to the federal standards and the current marketplace.
22.	R202 Definition “Occupant sensor control”	2021 IECC Change	This definition was added to support the lighting control changes in Section R404.
23.	R202 Definition “On-site renewable energy”	2021 IECC Change	This definition was added to mirror that in the commercial energy code and support requirements in Section R406.
24.	R202 Definition “Ready access”	2021 IECC Change	This definition was revised to be consistent with the changes made in other codes last cycle to change the term “readily accessible” to “ready access” when used in reference to repair or maintenance access.
25.	R202 Definition “Renewable energy certificate”	2021 IECC Change	This definition was added to mirror that in the commercial energy code and support requirements in Section R406.
26.	R202 Definition “Renewable energy resources”	2021 IECC Change	This definition was added to mirror that in the commercial energy code and support requirements in Section R406.
27.	R202 Definition “Residential building”	Code Change (21-GP2-084)	This definition change alters the scope of the Washington State Energy Code, Residential Provisions to resemble more closely that of the International Residential Code. Multifamily buildings with dwellings directly accessed from

			the outdoors will remain in the residential provisions, but other R-2 buildings are moved under the commercial provisions.
28.	R202 Definition "Thermal distribution efficiency"	2021 IECC Change	This is a new definition, based on an ICC standard, added to support a change in Section R403.3.1 for ducts buried beneath a building.
29.	R303.1.2 Insulation mark installation	2021 IECC Change	Additional verbiage was added to specify how products which cannot be marked by the manufacturer are to be identified.
30.	R303.1.5 Air-impermeable insulation	2021 IECC Change	Information from the previous definition was codified here instead. It was felt this was more in line with a code specification than a definition.
31.	R303.3 Maintenance information	2021 IECC Change / Editorial	The term "readily accessible" was changed to "readily visible" for clarity. This is in line with the changes made to replace "accessible" to "access" when used in reference to repair or maintenance access.
32.	R401.1 Scope	Code Change (21-GP2-084)	The scope of the Washington State Energy Code, Residential Provisions was changed to resemble more closely the scope of the International Residential Code. Multifamily buildings with dwellings directly accessed from the outdoors will remain in the residential provisions, but other R-2 buildings are moved under the commercial provisions.
33.	R401.2 Compliance	Code Change (21-GP2-022)	This change corrects an error in the previous code that stated that compliance via Section R405 also required compliance with Section R406. R405 carries its own additional credit weighting and thus is not intended to also comply with Section R406.
34.	R401.3 Certificate	2021 IECC Change	This section was revised to require additional information (for any installed PV system and the code under which the building was permitted) on the certificate left for the owner and reformatted into a list.
35.	R402.1.1 Vapor retarder	2021 IECC Change	This section was moved up from R402.1.6 but was otherwise unchanged.
36.	R402.1.2 Insulation and fenestration criteria	2021 IECC Change	Section R402 was revised to establish the U-factor table as the default performance basis, with the R-value as an alternate, rather than the other way around.
37.	R402.1.3 R-value alternative	2021 IECC Change	This section replaces the removed U-factor alternative section, as the U-factors are now the default performance basis, with R-values as the alternative approach.
38.	R402.1.4 R-value computation	2021 IECC Change / Code Change (editorial) (21-GP2-011)	This section was revised to clarify how multiple layers and forms of insulation are shown to be compliant. The code change removes a redundant sentence from the middle of the IECC language.
39.	R402.1.5 Total UA alternative	2021 IECC Change	An additional sentence was added to clarify that compliance with R402.5 is also required.

40.	R402.1.6 Vapor retarder	2021 IECC Change	This section was renumbered as R402.1.1.
41.	Table R402.1.2 Insulation and fenestration requirements by component	2021 IECC Change / Code Change (21-GP2-079)	Section R402 was revised to establish the U-factor table as the default performance basis, with the R-value as an alternate, rather than the other way around. The U-factor table was moved to be the first referenced table. Two values within the table were changed: the ceiling U-factor went from 0.026 to 0.024 in the 2021 IECC; the fenestration U-factor went from 0.30 to 0.28 via code change proposal.
42.	Table R402.1.3 Insulation minimum R-values and fenestration requirements by component	2021 IECC Change / Code Change (21-GP2-079)	Section R402 was revised to establish the U-factor table as the default performance basis, with the R-value as an alternate, rather than the other way around. The R-value here had four values within the table changed: the fenestration U-factor went from 0.30 to 0.28 via code change proposal; and in the 2021 IECC, the ceiling U-factor went from R-49 to R-60, the wood frame wall value went from 21 int. to 20+5 or 13+10, and the slab insulation depth changed from 2 feet to 4 feet.
43.	R402.2.1 Ceilings with attic spaces	2021 IECC Change	This section is updated using the new values for ceiling insulation and updating section numbers due to the table switch.
44.	R402.2.2	Editorial	This just inserts a placeholder for a section number not used/adopted in the WSEC. This ensures that the section numbers remain essentially the same between the WSEC and IECC.
45.	R402.2.3 Eave baffle	2021 IECC Change	Additional installation instruction was added, consistent with other code requirements.
46.	R402.2.4 Access hatches and doors	2021 IECC Change	This section was split into a prescriptive section and a mandatory subsection detailing non-tradable installation instructions. No new requirements are added.
47.	R402.2.5 Mass walls	2021 IECC Change	Minor editorial changes; “solid timber” was removed as redundant to mass timber.
48.	R402.2.7 Floors	2021 IECC Change	This section was changed to a list format and edited for clarity.
49.	R402.3.3 Glazed fenestration exemption	2021 IECC Change	Editorial change to bring this section into alignment with the changes to make the U-factor table the default performance basis rather than the R-value table.
50.	R402.3.4 Opaque door exemption	2021 IECC Change	Editorial change to bring this section into alignment with the changes to make the U-factor table the default performance basis rather than the R-value table.
51.	R402.3.5 Combustion air openings	Code Change / Editorial (21-GP2-081)	This section was moved from R402.4.4. It was felt this was more in line with fenestration requirements than air leakage testing.
52.	R402.3.6 Fireplaces	Code Change / Editorial (21-GP2-081)	This section was moved from R402.4.2. It was felt this was more in line with fenestration requirements than air leakage testing. A pointer was added to the requirements for gas fireplaces found in Section R403.7.2.
53.	R402.4.1 Building thermal envelope air leakage	Code Change (21-GP2-082)	“Air leakage” is added to the title for clarity. An additional subsection is added so the section references are updated.

54.	R402.4.1.2 Testing	Code Change (21-GP2-082, 21-GP2-088)	The specifics on the testing standard were moved from the exception into the main body of the section and the test must include information on the time, date and location where performed. Requirements were also added that the testing personnel be trained by an accredited program. The second exception from the second set of exceptions was moved to Section R402.4.1.3. The volume adjustment capping the ceiling height at 8.5 feet was removed.
55.	R402.4.1.3 Leakage rate	Code Change (21-GP2-082, 21-GP2-089)	A new set of subsections was added to separate out the requirements for single family and multifamily dwelling air leakage testing. The maximum leakage rate was reduced to 3 air changes per hour for single family and 0.25 cfm (the same as the commercial requirement) for multifamily.
56.	R402.4.2 Fireplaces	Code Change / Editorial (21-GP2-081)	This section was moved to R402.3.6.
57.	R402.4.2.1 Gas fireplace efficiency	Code Change / Editorial (21-GP2-081)	This section was moved to Section R403.7.2.
58.	R402.4.4 Combustion air openings	Code Change / Editorial (21-GP2-081)	This section was moved to R402.3.5.
59.	R402.4.6 Electrical and communications outlet boxes	2021 IECC Change	A new section was added to the model code detailing air sealed boxes.
60.	Table R402.4.1.1 Air barrier, air sealing and insulation installation	2021 IECC Change	Various clarifications and details were added to the installation table to provide better air sealing and insulation installation instruction details. This does also include an editorial change at the state level to clarify some of the added language in new footnote b.
61.	R402.5 Maximum fenestration U-factor	2021 IECC Change	A new exception was added to the 2021 IECC to exempt storm shelters built under the new ICC standard.
62.	R403.1.1 Programmable or connected thermostat	2021 IECC Change	Additional detail was added in the 2021 IECC to clarify that the programmable thermostats must have the ability to program for different days of the week.
63.	R403.1.3 Continuously burning pilot lights	2021 IECC Change	This was Washington State language that has been adopted into the 2021 IECC. As the September 1, 2022, date for compliance has passed, that detail was removed. The exception added by Washington was not adopted by the IECC but is retained.
64.	R403.2 Hot water boiler temperature reset	2021 IECC Change	This section was rewritten in the 2021 IECC to better align with federal requirements for boilers and controls. An exception was added for tankless domestic hot water heating.
65.	R403.3 Ducts	2021 IECC Change	This section and subsequent subsections were revised and reordered to incorporate changes made in the 2021 IECC to better consolidate all duct insulation requirements within one section and provide more clarity.

66.	R403.3.4.1 Sealed air handler	Code Change (21-GP2-032)	This change requires the air handler to be located within the conditioned space.
67.	R403.3.5/R403.3.6 Duct testing	2021 IECC Change	The exception for ducts within the conditioned space was removed. The ducts must now be tested but are allowed double the leakage rate per Section R403.3.6.
68.	R403.4.1 Protection of piping insulation	Code Change (21-GP2-049)	Clarification of the intent or equipment maintenance, along with a requirement that the insulation be removable near the equipment requiring maintenance.
69.	R403.5 Service hot water systems	Code Change / Editorial (21-GP2-066)	Rather than changing subsection reference numbers, it now just refers to "this section."
70.	R403.5.1 Heated water circulation and temperature maintenance systems	2021 IECC Change / Editorial	The term "accessible" was changed to "in a location with access" for clarity. This is in line with the changes made to replace "accessible" to "access" when used in reference to repair or maintenance access.
71.	R403.5.1.1 Circulation systems	Code Change (21-GP2-071)	This section and subsections were revised for clarity. A new section for multifamily was added that requires ECM motors for central service water heating distribution systems.
72.	R403.5.2 Demand recirculation water systems (deleted)	Code Change (21-GP2-071)	This section was moved to R403.5.1.1.1.
73.	R403.5.2 Water volume determination (new)	Code Change (21-GP2-047)	This section just provides the reference and procedure for determining the volume of water in piping when selecting one of the new options for credits in Section R406. This is not a base code requirement.
74.	R403.5.5 Water heater installation location	Code Change (21-GP2-080)	This section requires that water heaters be located within conditioned space except for highly efficient water heaters where the standby losses are overcome by the efficiency of the unit performance.
75.	R403.5.7 Heat pump water heating	Code Change (21-GP2-066)	This new section requires that service water heaters in single family dwellings, duplexes and townhouses be provided by heat pump water heaters. Exceptions are provided for small water heaters, small dwelling units, supplemental water heating systems, and some renewable energy systems. This includes allowances for both gas and electric heat pump water heaters.
76.	R403.5.7.1 Supplementary heat for heat pump water heating systems	Code Change (21-GP2-066)	This is a support section for R403.5.7 and sets requirements for when a supplemental water heating system can be used with the heat pump water heater.
77.	R403.6 Mechanical ventilation	2021 IECC Change	Added clarification that dwelling units need to be provided with mechanical ventilation and adds pointers to the appropriate code sections.
78.	R403.6.1 Whole house mechanical ventilation system fan efficacy	2021 IECC Change	This change clarifies the testing conditions and product labeling requirements.

79.	R403.6.2 Testing	2021 IECC Change	A new requirement was added to the 2021 IECC requiring that the mechanical ventilation be tested and verified to meet the minimum flow rate requirements.
80.	Table R403.6.1 Mechanical ventilation system fan efficacy	2021 IECC Change	The table was edited for clarity and the fans redefined by type rather than installed location. The efficacy requirements were updated to the Energy Star Version 4.0 requirements.
81.	R403.7.1 Electric resistance zone heated units (deleted)	Code Change (21-GP2-065)	This section, requiring all electric resistance heated dwellings to provide ductless mini-splits, was removed due to the new requirement in R403.13 that space heating be provided by heat pumps in most cases.
82.	R403.7.1 Gas fireplace efficiency	Code Change / Editorial (21-GP2-081)	This section was moved out of the air leakage section. It was previously Section R402.4.2.1. This is a renumbering change only with no changes to the text.
83.	R403.10 Energy consumption of pools and spas	2021 IECC Change / Editorial	This section was modified to match the language found in the commercial provisions of the energy code and the International Swimming Pool and Spa Code.
84.	R403.10.1 Heaters	2021 IECC Change / Editorial	The term “accessible” was changed to “in a location with access” for clarity. This is in line with the changes made to replace “accessible” to “access” when used in reference to repair or maintenance access.
85.	R403.10.2 Time switches	2021 IECC Change	Clarification was added that the controls must automatically turn off heaters and pump motors.
86.	R403.12 Residential pools and permanent residential spas	2021 IECC Change	This section was modified to match the language found in the commercial provisions of the energy code and the International Swimming Pool and Spa Code.
87.	R403.13 Heat pump space heating	Code Change (21-GP2-065)	This new section requires that space heating be provided by a heat pump—either gas or electric—as a method to reduce greenhouse gas emissions and save energy. There are exceptions provided for dwellings with small heating loads and allowances for supplementary heating following the requirements of Section R403.1.2.
88.	R404 Electrical power and lighting	2021 IECC Change	This section was expanded significantly to include lighting controls for both interior (R404.2) and exterior lighting (R404.3). Exterior lighting must follow the requirements in the commercial provisions (R404.1.1). Finally, all permanently installed lighting fixtures are required to contain high efficacy lighting sources.
89.	R405.1 Scope (Total building performance)	2021 IECC Change	The title of this section was revised from simulated performance alternative to total building performance and this editorial change to the scoping section correlates that change.
90.	R405.2 Performance based compliance	2021 IECC Change	Similar to what the state did for the 2018 code, the IECC removed the identifier “Mandatory” from individual sections and created a new table in Section R405 to identify those provisions that must be included when using the total building performance method. This section is the pointer to that table and was combined with text from the former Section R405.3.

91.	R405.2 Performance based compliance	Code Change (21-GP2-073, 21-GP2-084)	The percentage reduction was adjusted to match the reduction goal for the code cycle as required in RCW 19.27A.160. A pointer was added to Item 5 to help identify those R-2 buildings that are still within the scope of this code.
92.	Table R405.2(1) Mandatory compliance measures for total building performance	2021 IECC Change / Code Change (21-GP2-022)	The table was updated with new mandatory provisions and simplified by removing some of the subsection references and just referencing the entire section as applicable. An error is also corrected by removing reference to R406. The additional efficiency is covered by the energy reduction targets in items 2 through 5 of Section R405.2
93.	Table R405.2(2) Carbon emissions factors	Code Change (21-GP2-070)	This table is moved from R405.3 to R405.2(2) and the metric for electricity is changes from 0.80 to 0.44 to better align with the commercial energy code, the Clean Buildings law and the OFM lifecycle cost tool.
94.	R405.3 Documentation	2021 IECC Change	Documentation was moved from R405.4 and was renumbered without any other change.
95.	R405.3.1 Compliance software tools	2021 IECC Change	This section was moved from R405.4.1 and was renumbered only.
96.	R405.3.2 Compliance report	2021 IECC Change	This section, along with R405.3.2.1 and R405.3.2.2, was moved from R405.4.2. The language was simplified for clarity.
97.	R405.4 Calculation procedure	2021 IECC Change	This section, along with R405.4.1 and R405.4.2, was renumbered from R405.5 with no changes other than correcting section references.
98.	R405.5 Reserved	2021 IECC Change	This section is no longer used; the text was moved to R405.4.
99.	Table R405.4.2(1) Specifications for the standard reference and proposed designs	2021 IECC Change / Code Change	Section numbers were updated. Air exchange rate specifies the mechanical ventilation system is the same as proposed. Mechanical ventilation is revised to align with the new format for Table R403.6.1. Heating system and Service water heating are both revised to align with the baseline of heat pump heating and water heating as introduced in this code through 21-GP2-065 and -066. Service water heating (and footnote i) was also revised to encourage locating water heaters near the locations of hot water use. Thermal distribution system was modified to require duct location the same in both proposed and standard reference design.
100.	R405.5 Calculation software tools	2021 IECC Change	Renumbering only, no other changes for this section and R405.5.1, R405.5.2 and R405.5.3.
101.	R406.2 Carbon emission equalization	Code Change (21-GP2-073)	The last sentence was removed. It was deemed redundant.

102.	Table R406.2 Fuel normalization credits	Code Change (21-GP2-073)	<p>There are two options being presented for this table. Both options revise the table to include more detailed descriptions of heating systems and supplemental systems.</p> <p>Option 1 is the initial technical advisory group recommendation based on the original proposal and the goal of achieving the required energy savings for the cycle.</p> <p>Option 2 is a revised proposal that takes into account the other code change proposals going forward to public hearing and the changes in equipment values based on the new requirements in the proposed rule.</p>
103.	R406.3 Additional energy efficiency requirements	Code Change (21-GP2-073, 21-GP2-035)	<p>Again, there are two options being presented for this table. Both tables include a new 150 square foot threshold for additions to trigger this requirement.</p> <p>Option 1 is the initial technical advisory group recommendation based on the original proposal and the goal of achieving the required energy savings for the cycle.</p> <p>Option 2 is a revised proposal that takes into account the other code change proposals going forward to public hearing and the reduction in energy use based on the new requirements in the proposed rule.</p>
104.	Table R406.3 Energy credits	<p>Code Change (21-GP2-073)</p> <p>(21-GP2-023)</p> <p>(21-GP2-024)</p> <p>(21-GP2-025)</p> <p>(21-GP2-050)</p> <p>(21-GP2-034)</p> <p>(21-GP2-047)</p>	<p>This section also has two options. For both options, one half point is equivalent to a 600 kWh energy savings. Some options were eliminated due to the fact they are now a part of the base code requirements.</p> <p>Option 1 is the initial technical advisory group recommendation based on the original proposal. The credits are based on the heating system type from Table R406.2.</p> <p>Option 2 is a revised proposal that takes into account the other code change proposals going forward to public hearing. Based on the heat pump space and water heating changes, there is no differentiating between the systems types for point values. Instead, there are options that are just not available with some systems types, as identified by footnote d. Some options are no longer available based on the fact that the base requirements now incorporate the provisions contained therein; some are just adjusted to yield a similar energy savings over the base code, or the point value is changed based on the savings reflected.</p> <p>In addition to the two versions detailed above, there are several new options that are added to the table (and present in both options).</p> <p>Option 3.2 requires a cold climate heat pump to be used in areas with a winter design temperature at 23° or below.</p> <p>Option 3.5 allows an alternate cold climate 10 HSPF heat pump to be substituted for an 11 HSPF heat pump, but will require a cold climate heat pump similar to Option 3.2.</p> <p>Option 3.6 also allows a substitution of a 9 HSPF heat pump for the required 10 HSPF in some cases.</p> <p>New Option 3.7 provides credit for an air to water heat pump with a COP rating of 3.2.</p> <p>New Option 3.8 allows a half credit for a connected thermostat.</p> <p>New Option 5.2 provides half a credit for compact hot water</p>

		(21-GP2-073)	distribution systems as is required in the commercial energy code provisions and as detailed in Section R403.5.2. Option 6.1 for on-site generation is expanded to allow from a half credit to 4.5 credits based on the annual generation.
105.	R501.1.1 General (Existing buildings)	2021 IECC Change / Editorial	The text from this section and Section R501.2 were swapped, with title changes to both sections.
106.	R501.1 Compliance	2021 IECC Change / Editorial	The text from this section and Section R501.1.1 were swapped, with title changes to both sections. A pointer was added to send changes in space conditioning to the Additions section.
107.	R502.1 General (Additions)	Code Change / Editorial (21-GP2-035)	The phrase “except as specified in this chapter” was added to support the new section R502.3.1.1.
108.	R502.1.1 Small additions	Code Change (21-GP2-035)	A new section was added to exempt small additions (less than 150 ft ²) from the requirement to obtain additional energy efficiency credits in Section R406.
109.	R502.2 Change in space conditioning	2021 IECC Change	Changes in space condition was moved from Section R503.3 but is otherwise unchanged.
110.	R502.3/R502.3.1	2021 IECC Change	Section reference number changes only; no change to technical provisions.
111.	R502.3.1.1 Existing ceilings with attic spaces	Code Change (21-GP2-035)	This new section requires that when additions over 150 square feet adjoin existing attic spaces, the existing attic space needs to be brought into full compliance with the envelope provisions in R402.
112.	R502.3.2 Heating and cooling systems	Code Change (21-GP2-035)	The section is reworded for clarity, and exception 1 is correlated with the change in R502.1.1. Former exception 3 is deleted to correlate with the IECC change to require all ducts to be tested.
113.	R502.3.3/R502.3.4	Code Change / Editorial	Renumbering only; no change to technical provisions
114.	R502.4 Existing plus addition compliance	2021 IECC Change / Editorial	The title is changed to correlate with the new title in Section R405.
115.	R503.1 General (Alterations)	2021 IECC Change / Editorial	The language in paragraph 2 was simplified and moved to the first sentence to align with the language in other code sections of Chapter 5.
116.	R503.1.1/ R503.1.1.1	2021 IECC Code Change / Editorial	Updated section references only.
117.	R503.1.2 Heating and cooling systems	Code Change (21-GP2-065)	An exception was added to this section to state that replacement heating equipment is not required to comply with the heat pump requirement as long as it does not exceed the heating capacity of the equipment being replaced.
118.	R503.1.3 Service hot water systems	Code Change (21-GP2-066, 21-GP2-080)	An exception was added to this section to state that replacement water heating equipment is not required to comply with the heat pump requirement as long as it does not exceed the heating capacity of the equipment being replaced. A second exception is added to specify that

			replacement water heaters are not required to be moved to comply with Section R403.5.5.
119.	R503.1.4 Lighting	2021 IECC Code Change	The threshold for lighting to comply with Section R404.1 was decreased from 50 percent replacement to 10 percent replacement.
120.	R503.2 Change in space conditioning	2021 IECC Change	This section was moved to R502, Additions, since the change in space conditioning results in additional living space.
121.	R505.1 General (Change of occupancy or use)	2021 IECC Change	This is a title change only to align with the format of the other existing building sections.
122.	R505.1.1 Unconditioned space	2021 IECC Change	A pointer section was added to direct users to the Additions section for changes in space conditioning.
123.	Chapter 6 Referenced standards	2021 IECC Change / Code Changes	Various standards were updated to more recent editions or were added to support new code requirements as noted in the section descriptions.