

**STATE CONSTRUCTION CODE AMENDMENTS**

2017 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Mike Schultz**

Senate Sponsor: Curtis S. Bramble

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**LONG TITLE**

**Committee Note:**

The Business and Labor Interim Committee recommended this bill.

**General Description:**

This bill amends provisions related to the state construction code.

**Highlighted Provisions:**

This bill:

- ▶ amends a provision related to the installation of passive radon controls; and
- ▶ amends a provision related to natural gas-fired water heater emissions.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

None

**Utah Code Sections Affected:**

AMENDS:

**15A-3-206**, as last amended by Laws of Utah 2016, Chapter 249

**15A-6-102**, as enacted by Laws of Utah 2016, Chapter 249

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*Be it enacted by the Legislature of the state of Utah:*

Section 1. Section **15A-3-206** is amended to read:

**15A-3-206. Amendments to Chapters 39, 44, and Appendix F of IRC.**



28 (1) In IRC, Section E3901.9, the following exception is added:

29 "Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets  
30 adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the  
31 garage may be connected to the garage branch circuit."

32 (2) In IRC, Section E3902.16, the following words in the first sentence are deleted:

33 "family rooms, dining rooms, living rooms, parlors, libraries, dens," and "sunrooms, recreation  
34 rooms, closets, hallways, and similar rooms or areas."

35 (3) In Section E3902.17:

36 (a) following the word "Exception" the number "1." is added; and

37 (b) at the end of the section, the following sentences are added:

38 "2. This section does not apply for a simple move or an extension of a branch circuit or an  
39 outlet which does not significantly increase the existing electrical load. This exception does  
40 not include changes involving remodeling or additions to a residence."

41 (4) IRC, Chapter 44, is amended by adding the following reference standard:

| "Standard reference number                                 | Title  | Referenced in code section number |
|--|--|-----------------------------------|
| USC-FCCCHR 10th Edition Manual of Cross Connection Control | Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531 | Table P2902.3"                    |

44 (5) (a) When passive radon controls or portions thereof are voluntarily installed, the  
45 voluntary installation shall comply with Appendix F of the IRC.

46 (b) An additional inspection of a voluntary installation described in Subsection (5)(a) is  
47 not required.

48 Section 2. Section **15A-6-102** is amended to read:

49 **15A-6-102. Nitrogen Oxide emission limits for natural gas-fired water heaters.**

50 (1) As used in this section:

51 (a) "BTU" means British Thermal Unit.

52 (b) (i) "Heat input" means the heat of combustion released by fuel burned in a water  
53 heater based on the heating value of the fuel.

54 (ii) "Heat input" does not include the enthalpy of a water heater's incoming combustion

55 air.

56 (c) "Heat output" means the enthalpy of a water heater's working fluid output.

57 (d) "Natural gas-fired water heater" means a device that heats water:

58 (i) using natural gas combustion;

59 (ii) for use external to the device at a pressure that is less than or equal to 160 pounds  
60 per square inch gage; and

61 (iii) to a thermostatically controlled temperature less than or equal to:

62 (A) 210 degrees Fahrenheit; or

63 (B) 99 degrees Celsius.

64 (e) "ppm" means parts of Nitrogen Oxide per million parts of water heater air output.

65 (f) "Recreational vehicle" means the same as that term is defined in Section [13-14-102](#).

66 (2) Subject to Subsection (6), a person may not sell or install a natural gas-fired water  
67 heater with an emission rate greater than the following limits:

68 (a) for a water heater that has a heat input of less than or equal to 75,000 BTU per hour  
69 that is not installed in a mobile home, a limit of:

70 (i) 10 nanograms per Joule of heat output; or

71 (ii) 15 ppm, corrected to 3% oxygen;

72 (b) for a water heater that has a heat input of greater than 75,000 BTU per hour and less  
73 than 2,000,000 BTU per hour that is not installed in a mobile home, a limit of:

74 (i) ~~[10]~~ 14 nanograms per Joule of heat output; or

75 (ii) 20 ppm, corrected to 3% oxygen;

76 (c) for a water heater installed in a mobile home, a limit of:

77 (i) 40 nanograms per Joule of heat output; or

78 (ii) ~~[20]~~ 55 ppm, corrected to 3% oxygen;

79 (d) for a pool or spa water heater with a heat input that is less than or equal to 400,000  
80 BTU per hour, a limit of:

81 (i) 40 nanograms per Joule of heat output; or

82 (ii) 55 ppm, corrected to 3% oxygen; and

83 (e) for a pool or spa water heater with a heat input of greater than 400,000 BTU per  
84 hour and less than 2,000,000 BTU per hour, a limit of:

85 (i) 14 nanograms per Joule of heat output; or

86 (ii) ~~[55]~~ 20 ppm, corrected to 3% oxygen.

87 (3) A water heater manufacturer shall use California South Coast Air Quality  
88 Management District Method 100.1 to calculate the emissions rate of a water heater subject to  
89 this section.

90 (4) A water heater manufacturer shall display on a water heater subject to this section,  
91 as a permanent label, the model number and the Nitrogen Oxide emission rate of the water  
92 heater.

93 (5) The requirements of this section do not apply to:

94 (a) a water heater using a fuel other than natural gas;

95 (b) a water heater used in a recreational vehicle;

96 (c) a water heater manufactured in the state for sale and shipment outside of the state;

97 or

98 (d) a water heater manufactured before July 1, 2018.

99 (6) Subsection (2) applies to the sale or installation of a water heater on or after July 1,  
100 2018.

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**Legislative Review Note**  
**Office of Legislative Research and General Counsel**