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- /0102" 23/ Kristopher Stenger, representing ICC (kstenger@iccsafe.org)

~ ž ~ &#223' /2530257i 2" /89fi 024" /: 5302fi 0; " fk ~ fi /0=" >3

\* ; ; f2" # fi " @2602f54fi 070# 4/

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AB ~ , fC \* fl (A natural gas, manufactured gas, liquefied petroleum gas or a mixture of these).

AB ~ , fl L (kerosene or any hydrocarbon oil having a flash point not less than 100° F (38° C)).

, iDB i fi (A fuel oil or biodiesel blend).

" : 64" f54fi 070# 4/

&#167; ( " fE 531 FG 1 f4F 117 G " 23/9fi 53fi Heat pumps having supplementary electric-resistance, fuel gas, or liquid fuel fuel oil heat system heating systems shall have controls that are configured to prevent supplemental heat operation when the capacity of the heat pump compressor can meet the heating load. Limits supplemental Supplemental heat operation shall be limited to only those times when where one of the following applies:

- 1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
- 2. The heat pump is operating in defrost mode.
- 3. The vapor compression cycle malfunctions.
- 4. The thermostat malfunctions.

&#167; ( fE 037 53 /07 /f8' G 1" /53 / fi 4" 3fi) The manufacturer shall equip each gas, liquid fuel oil and electric boiler boiler

\_\_\_\_\_ or liquid fuel conventional tops and conventional oven fossil fuel systems using fossil fuel water heaters, household clothes dryers, conventional cooking tops or conventional ovens shall comply with the requirements of Sections R 404.5.1 through R 404.5.4.

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Above-grade walls	Type: mass where the proposed wall is a mass wall; otherwise wood frame.	As proposed
	Gross area: same as proposed.	As proposed
	U-factor: as specified in Table R 402.1.2.	As proposed
	Solar absorptance = 0.75.	As proposed
	Emittance = 0.90.	As proposed
Basement and crawl space walls	Type: same as proposed.	As proposed
	Gross area: same as proposed.	As proposed
	U-factor: as specified in Table R 402.1.2, with the insulation layer on the interior side of the walls.	As proposed
Above-grade floors	Type: wood frame.	As proposed
	Gross area: same as proposed.	As proposed
	U-factor: as specified in Table R 402.1.2.	As proposed
Ceilings	Type: wood frame.	As proposed
	Gross area: same as proposed.	As proposed
	U-factor: as specified in Table R 402.1.2.	As proposed
Roofs	Type: composition shingle on wood sheathing.	As proposed
	Gross area: same as proposed.	As proposed
	Solar absorptance = 0.75.	As proposed
	Emittance = 0.90.	As proposed
Attics	Type: vented with an aperture of 1 ft. per 300 ft. of ceiling area.	As proposed
Foundations	Type: same as proposed.	As proposed
	Foundation wall area above and below grade and soil characteristics: same as proposed.	As proposed
Opaque doors	Area: 40 ft.	As proposed
	Orientation: North.	As proposed
	U-factor: same as fenestration as specified in Table R 402.1.2.	As proposed
Vertical fenestration other than opaque doors	Total area = (a) The proposed glazing area, where the proposed glazing area is less than 15 percent of the conditioned floor area. (b) 15 percent of the conditioned floor area, where the proposed glazing area is 15 percent or more of the conditioned floor area.	As proposed
	Orientation: equally distributed to four cardinal compass orientations (N, E, S & W).	As proposed
	U-factor: as specified in Table R 402.1.2.	As proposed
	SHGC: as specified in Table R 402.1.2 except for climate zones without an SHGC requirement, the SHGC shall be equal to 0.40.	As proposed
	Interior shade fraction: 0.92 - (0.21 × SHGC for the standard reference design).	Interior shade fraction: 0.92 - (0.21 × SHGC as proposed)
	External shading: none	As proposed
Skylights	None	As proposed
Thermally isolated sunrooms	None	As proposed
	The air leakage rate at a pressure of 0.2 inch w.g. (50 Pa) shall be Climate Zones 0 through 2: 5.0 air changes per hour. Climate Zones 3 through 8: 3.0 air changes per hour.	The measured air exchange rate.
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