

EC144-09/10

Table 405.5.2(1)

Proponent: Bill Prindle, ICF International, representing the Energy Efficient Codes Coalition; Jeff Harris, Alliance to Save Energy; Harry Misuriello, American Council for an Energy-Efficient Economy (ACEEE); Garrett Stone, Brickfield, Burchette, Ritts & Stone; Steve Rosenstock, Edison Electric Institute; Brian Dean, ICF International

Revise table as follows:

**TABLE 405.5.2(1)
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Heating systems ^{g, h, i}	As Proposed Capacity: sized in accordance with Section M1401.3 of the <i>International Residential Code</i>	As Proposed
Cooling systems ^{g, h, j}	As Proposed Capacity: sized in accordance with Section M1401.3 of the <i>International Residential Code</i>	As Proposed
Service Water Heating ^{g, i, j, k}	As Proposed Use: Same as proposed design	As Proposed <u>Use:</u> gal/day=30 + (10 x N _{br})

- i. For a proposed design without a proposed heating system, a heating system with the prevailing minimum efficiency shall be assumed for both the standard reference design and the proposed design. For electric resistance heating systems, the prevailing federal minimum efficiency air-source heat pump shall be used for the standard reference design.
- j. For a proposed design home without a proposed cooling system, an electric air conditioner with the prevailing minimum efficiency shall be assumed for both the standard reference design and the proposed design.

(Portions of table and footnotes not shown remain unchanged)

Reason: This proposal ensures that the proper notes for the systems are connected to the proper systems. Note "i", which states that "for electric heating systems, the prevailing minimum efficiency shall be assumed for the standard reference design" is very important to ensure that consistent performance path modeling is conducted for electric heating systems. Previously this note was tied to the cooling systems, however, it should be tied to the heating system as proposed.

In addition note "i" has been modified to clarify that only electric resistance heating systems should have the standard reference design as the prevailing federal minimum efficiency air-source heat pump. This is to ensure that electric heating is not used in the standard reference design as a baseline home for achieving minimum code.

In addition, there is the deletion of footnote "i" and addition of footnote "J" to the cooling system, to clarify the intent of those two notes. The note change has been marked with the capital J to ensure that the lowercase i and j are not confused with the underline, as may have been done in previous code change cycles.

In the service water heating section there is a removal of footnotes i and j, which relate to heating and cooling only and also the addition of the word "Use:" to clarify what the gal/day equation is for.

Cost Impact: The code change proposal will not increase the cost of construction.

Public Hearing: Committee:	AS	AM	D
Assembly:	ASF	AMF	DF

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