

GG328-14

A106.2.2.1, A106.2.2.2

THIS CODE CHANGE PROPOSAL IS ON THE AGENDA OF THE IgCC ENERGY/WATER CODE DEVELOPMENT COMMITTEE. SEE THE HEARING ORDER FOR THE IgCC ENERGY/WATER CODE DEVELOPMENT COMMITTEE.

Proponent: Steven Rosenstock, Edison Electric Institute, representing Edison Electric Institute (srosenstock@eei.org)

Revise as follows:

A106.2.2.1 Heating equipment. For heating equipment, the part-load efficiency of the equipment shall be not less than 40 5 percent greater than the part-load, full-load, annual, or seasonal efficiencies shown in the applicable tables of the *International Energy Conservation Code* or ASHRAE 90.1, or the equipment shall be ENERGY STAR qualified, as applicable.

A106.2.2.2 Cooling equipment. For cooling equipment, the part-load efficiency of the equipment shall be not less than 40 5 percent greater than the part-load, full load, annual, or seasonal efficiencies shown in the applicable tables of the *International Energy Conservation Code*, or ASHRAE 90.1, or the equipment shall be ENERGY STAR qualified.

Reason: This change will improve the IgCC for the following reasons:

The minimum energy efficiency requirements for many types of heating and cooling equipment have been increased significantly in the latest versions of ASHRAE 90.1 and the IECC. Some of the increases have already taken place, and other increases will take effect by January 1, 2016. In addition, federal efficiency standards have increased for NAECA covered heating and cooling products (e.g., boiler efficiencies were increased in September 2012, and heat pumps and air conditioners will have efficiency increases by early 2015).

For many types of heating or cooling equipment shown in the ASHRAE / IECC tables, there is no information on "part load" efficiency. The only efficiency metric provided is on a full load basis (e.g., EER), seasonal basis (SEER, HSPF, COP), or annual basis (AFUE). Therefore, there is no way for a code official to enforce the provision of part load efficiency being increased for equipment that has no part load efficiency metric or value. This revision will allow building owners to specify equipment that will meet the increased threshold based on the actual efficiency rating of the product, and it will allow code officials to enforce such a provision.

Cost Impact: Will not increase the cost of construction.

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