

**INTERPRETATION IC 90.1-2010-35 OF  
ANSI/ASHRAE/IES STANDARD 90.1-2010  
Energy Standard for Buildings Except Low-Rise Residential Buildings**

**Date Approved:** June 24, 2017

**Request from:** Clark Denson, Smith Seckman Reid, Inc., 2995 Sidco Dr., Nashville, TN 37204.

**Reference:** This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IES Standard 90.1-2010, Section 11.3.2 and Table 11.3.2A, regarding design conditions as it relates to supply air temperature setpoint in VAV system with parallel boxes.

**Background:** Note ‘a’ in Table 11.3.2A “Budget System Descriptions” says “Supply air temperature *setpoint* shall be constant at design conditions [see Section 11.3.2 (h)]”. However, Section 11.3.2 (h) in the current standard has to do with fan system efficiency and is not relevant to supply air temperature setpoints. That being said, 11.3.2 (h) in the current standard is not the same as it was in 2001. At that time, sub-section (h) related to how “System design supply air rates for the budget building design shall be based on a supply-air-to-room-air temperature difference of 20°F.” Sub-section (f) in 2001 was listed as “Not used,” and when it was removed in the 2004 edition, all of the subsequent notes were shifted to 1 letter earlier in the alphabet, so sub-section (h) became sub-section (g). However, the reference to sub-section (h) in note ‘a’ in Table 11.3.2A remains the same in all subsequent versions of the standard.

**Interpretation:** The reference to “design conditions” as it relates to supply air temperature setpoint in a VAV system with parallel boxes is meant to represent a supply-air-to-room-air temperature difference of 20°F, as described in Section 11.3.2 (g) of the current version of the standard, not 11.3.2 (h).

**Question:** Is this interpretation correct?

**Answer:** Yes

**Comments:** This seems to be a typo in the 2010 version. It is correct in the 2016 version