

**INTERPRETATION IC 90.1-2013-12 OF  
ANSI/ASHRAE/IES STANDARD 90.1-2013  
Energy Standard for Buildings Except Low-Rise Residential Buildings**

**Date Approved:** January 29, 2017

**Request from:** Dale Walls, Engineered Air, 1401 Hastings Cres. SE, Calgary, Alberta, Canada.

**Reference:** This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IES Standard 90.1-2013, Section 6.4.3.1.2, relating to dead band zone thermostat controls.

**Background:** Section 6.4.3.1.2 states: “Where used to control both heating and cooling, zone temperature controls shall be capable of providing a temperature range or dead band of at least 5°F (3°C) within which the supply of heating and cooling energy is shut off...”

**Interpretation:** This does not apply to makeup air and dedicated outdoor air supply equipment controlled by supply air temperature, not zone temperature.

**Question:** Is this interpretation correct?

**Answer:** Yes.

**Comments:** This section applies to “Zone Thermostatic Controls”, meaning those that control zone (space) temperature. It therefore does not apply to dedicated outdoor air supply equipment controlled by supply air temperature. (Note: the 2016 version of Standard 90.1 includes Section 6.5.2.6 Ventilation Air Heating Control that limits control setpoints for dedicated outdoor air systems.) However, the deadband requirement of Section 6.4.3.1.2 does apply to equipment controlled directly from space temperature (or by supply air temperature with setpoint reset by space temperature), as is common for makeup air systems serving a kitchen.