

**INTERPRETATION IC 62.1-2007-11 OF
ANSI/ASHRAE STANDARD 62.1-2007
VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY**

Transfer Approved: January 20, 2008

Originally issued as interpretation of Standard 62-2001 (IC 62-2001-45) on January 24, 2004, transferred to Standard 62.1-2004 (IC 62.1-2004-11) on June 25, 2006 and subsequently transferred to Standard 62.1-2007. Since no changes were made to the relevant sections of Standard 62.1-2007, no revisions were made to the interpretation as part of this transfer.

Request from: Joel Winstead (jdwinstead@trane.com), Trane Company, 1775 Pyramid Place, Suite 100, Memphis, TN 38132.

Reference: This request for interpretation refers to changes to the Standard as a result of ANSI/ASHRAE Addendum o to ANSI/ASHRAE Standard 62-2001 that are now incorporated in ANSI/ASHRAE Standard 62.1-2007. The changes include removal of the reference to smoking spaces in Table 6-1 of outdoor air requirements per general note 2 and addition of a requirement for additional ventilation and/or air cleaning in spaces where smoking is permitted and prohibits the recirculation or transfer of air from smoking to no-smoking areas per Section 6.2.9.

Background: Table 6-1 applies to no-smoking areas only. Section 6.2.9 requires that smoking areas have more ventilation and/or more air cleaning than comparable no-smoking areas. However, it does not say specifically how much more ventilation or specifically which contaminants must be removed or the efficiency of air cleaning that must be provided to comply with the standard. To comply with Standard 62.1-2007, the building design must meet the general requirements in Sections 4 and 5, the ventilation requirements in Section 6, determined using either the Ventilation Rate Procedure or the IAQ Procedure, the installation/start-up requirements in Section 7 and the operation/maintenance requirements in Section 8.

When applying the Ventilation Rate Procedure, no-smoking areas must be ventilated at the rates prescribed in Table 6-1, while smoking areas must be ventilated per Section 6.2.9 at rates that exceed those prescribed in Table 6-1 by an unspecified amount. Since it's non-specific, any degree of increase in ventilation airflow would seem to meet the mandatory minimum requirement in compliance with the standard.

Interpretation: A smoking-area design that increases the Table 6-1 ventilation rate, by even a very small amount, complies with the mandatory minimum requirements of the Ventilation Rate Procedure.

Question: Is this Interpretation correct?

Answer: Yes.

Comments:

ETS is a known carcinogen with no established minimum concentration; therefore, Std 62.1 can neither determine nor prescribe a minimum ventilation rate. While a ventilation rate only slightly higher than the rate prescribed in Table 6-1 for no-smoking spaces would technically result in compliance, the preponderance of scientific and medical evidence indicates that acceptable indoor air quality may not be achieved.