INTERPRETATION IC 90.1-2004-21 OF
ANSI/ASHRAE/IESNA STANDARD 90.1-2004
Energy Standard for Buildings Except Low-Rise Residential Buildings

Date Approved: 21 June 2008

Request from: Douglas Maddox (dougm@twgi.com), The Weidt Group, 5800 Baker Rd, Suite 100, Minnetonka, MN 55345.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IESNA Standard 90.1-2004, Section 9.6.1 and Table 9.6.1, regarding Atrium lighting power density.

Background: The lighting power density in Table 9.6.1 for the Atrium space type is listed as 0.6 W/ft^2 for the "First Three Floors" and 0.2 W/ft^2 for "Each Additional Floor".

Interpretation: I interpret this to mean that each of the first three floors is allowed 0.6 W/ft^2. Thus, for a three story atrium, the LPD would be 3 times 0.6 W/ft^2, or 1.8 W/ft^2.

Question: Is this interpretation correct?

Answer: No

Comment: The 0.6 W/ft^2 is for an atrium space three stories or less. Taller atriums would get an additional 0.2 W/ft^2 per story of height. For example, a 5 story atrium would be allowed 0.6 W/ft^2 for the initial three stories and 0.2 W/ft^2 for each of the two stories above 3 for a total allowance of 1.0 W/ft^2 for the entire atrium space.