

Executive Summary:

The DEA Clandestine Laboratory Training Center is located on the Quantico Marine Corps Base in Quantico, VA. It is a one-story building with a Mechanical Mezzanine Level that encompasses approximately 34,000 sq ft. The building spaces include multiple function types such as laboratories, classrooms, office space, and physical training areas. ASHRAE Standard 62.1-2004 and the corresponding 2006 Supplement Addenda and User's Manual were used to evaluate the building's ventilation requirements. The findings were then analyzed and compared to the values of the original design.

Several of the spaces analyzed fell outside of the scope of the standard. In these cases, assumptions were made using the information at hand. Considering the variables sure to be inherent in the assumptions made, it is difficult to speak with certainty about the ventilation effectiveness of the current design. While the results showed that some of the systems examined failed to comply with standard, the overall amount of outdoor air being supplied in the original design is on the order of 156% of the amount found to be required by the standard.