

**ASHRAE Standard 62.1 Ventilation Compliance Evaluation  
EXECUTIVE SUMMARY**

The Ventilation Rate Procedure described in ASHRAE Standard 62.1 (ASHRAE 2004) is used as the basis for calculating the ventilation requirements for the Milton Hershey School New Supply Center. The Supply Center consists of 14 air handling units supplying conditioned air to every space by way of VAV and CAV systems. Ventilation calculations for the Supply Center prove whether or not each of the air handling units complies with Standard 62.1 (ASHRAE 2004).

The Milton Hershey School New Supply Center is an 110,000 square foot, single story building with four elevated mechanical mezzanine rooms housing the 14 AHUs. Approximately 48,000 square feet of the building consists of the food distribution center for the Milton Hershey School while the remainder of the building consists of a clothing shop, general offices, a mail distribution center, and storage for the supply center and the school. Ventilation rates set fourth by Standard 62.1 (ASHRAE 2004) are determined for each space based on the occupancy, use, and square footage of these areas.

Ventilation effectiveness is determined by using the primary outdoor air fraction to locate the critical space for each AHU. The required amount of outdoor air each AHU must intake is then increased to ensure all spaces are properly ventilated and this value is compared to what is actually being supplied.

**Table 1 Standard 62.1 Compliance Summary**

AHU	Min OA Req (cfm)	OA Supplied (cfm)	Complies with Std. 62.1	AHU	Min OA Req (cfm)	OA Supplied (cfm)	Complies with Std. 62.1
1	1124	1150	YES	8	335	7400	YES
2	795	1150	YES	9	1348	1000	NO
3	3215	3640	YES	10	1414	1125	NO
4	3008	5585	YES	11	394	1045	YES
5	1041	3000	YES	12	552	1250	YES
6	1416	13500	YES	13	996	3000	YES
7	686	3000	YES	14	647	800	YES

Table 1 summarizes the OA requirements for each AHU in the supply center as well as the amount of outdoor air each AHU is scheduled to intake according to the construction documents prepared by H. F. Lenz Company. The table illustrates that 12 of the 14 AHUs comply with Standard 62.1 (ASHRAE 2004) based on the assumptions that were made for this report. AHU-9 and AHU-10 are not scheduled to supply enough outdoor air to their spaces as proven by the ventilation calculations and therefore do not comply with ASHRAE Standard 62.1 (ASHRAE 2004).