COMBUSTION AIR WORKSHEET

Address of property: _____

   A.   <u>Determine the total BTU/HR</u>

   Add the BTU/HR input rating of <u>all</u> fuel burning appliances in the space

Gas furnace(s)	_____	Btu/Hr
Gas water heater(s)	_____	Btu/Hr
Gas dryer	_____	Btu/Hr
Other gas appliances	_____	Btu/Hr
Total	_____	**Btu/Hr**

Note: If there are two (2" or 3") PVC pipes connected to each High Efficiency furnace (one intake, one exhaust) then the BTU/HR of the furnace(s) does not need to be considered.

Note: If the building is sealed so tightly that infiltration air is not adequate for combustion, combustion air shall be obtained from outdoors or spaces freely communicating with the outdoors. Continue to section **F.** after completing section **A.**

   B.   <u>Determine the minimum required volume of space</u> (50 cu.ft./1,000 BTU/Hr)

      Total Btu/Hr _____ ÷ 1,000 x 50 = _____ **min. cu.ft. required**

   C.   <u>Determine the volume of the space</u> (length x width x height)

      Length x Width x Height = _____ **cu.ft. (space volume)**

If **C.** (cu.ft. of the space) is greater than **B.** (min. cu.ft. required) then "STOP" the volume in the space is adequate. If **C.** (cu.ft. of the space) is less than **B.** (min. cu.ft. required) then continue to section **D.**

   D.   <u>Determine the volume of the space of an adjacent room</u> (length x width x height)

Length x Width x Height =	_____	cu.ft. (adjacent space volume)
Cu.ft. of space **C.** =	_____	cu.ft.
Total =	_____	**cu.ft. (total volume of both spaces)**

If **D.** (total cu.ft. of both spaces) is greater than **B.** (min. cu.ft. required) then continue to section **E.** If **D.** (total cu.ft. of both spaces) is less than **B.** (min. cu.ft. required) then continue to section **F.** Combustion air must be supplied from outdoor air.

   E.   <u>Determine the size of each opening between both spaces</u> (1 sq.in./1,000 BTU/Hr)

      Total BTU/HR _____ ÷ 1,000 = _____ **sq.in.** (100 sq.in. min. each)

      Metal louver considered 75 percent of required opening.

      Wood louver considered 25 percent of required opening.

"STOP". Note: two permanent openings to adjacent spaces shall be provided. One opening shall be within 12 inches of the top and one within 12 inches of the bottom of the space.

   F.   <u>Determine the size of each opening to outdoor air</u> (1 sq.in./2,000 BTU/Hr)

      Total BTU/HR _____ ÷ 2,000 = _____ **sq.in.** (3 in. rect. duct min.)

"STOP". Note: two permanent openings to outdoor air shall be provided. One opening shall be within 12 inches of the top and one within 12 inches of the bottom of the space.