

APPENDIX F

VENTILATION SYSTEM REQUIREMENTS FOR A PASSIVE GAS CONTROL SYSTEM

1. Ventilation trenches must be no further than 50 feet apart or 25 feet from the building foundation. Ventilation trenches must be provided for each area isolated by a continuous footing.
2. The gravel trench is to be a minimum of 12 x 12 inches, ventilation pipe sizes varies from 2 to 4 inches.
3. Pipe perforations – Minimum of 5 percent of the surface area of the pipe. Perforations must be symmetrical around the pipe. Ends of the pipe are to be capped.
4. All horizontal ventilation pipes are to be located at the highest point of the vent trenches.
5. There must be 30 lb. roofing felt, or similar material, placed over the ventilation trench separating the sand layer and the gravel. The roofing felt must be extended a minimum of 6 inches on both sides over the width of the trench.
6. Vertical ventilation pipes must be provided for every 400 feet of ventilation trench or at each end of a trench, whichever is least.
7. All vertical ventilation pipes must be terminated at a minimum of two feet above the highest point on the roof within a 10 foot radius of the vent pipe and away from source(s) of ignition.
8. The top end of the venting pipe must be provided with a tee or other approved device that will prevent rainwater from entering the pipe.
9. Exterior vent pipes must be constructed of cast iron, ductile iron, or similar material, to protect against ultraviolet sunlight.