

Appendix AQ6

stack requirements: stationary internal combustion appliances

AQ6.1 The discharge into air from any stationary internal combustion appliance must, after the date of notification of this Plan, be via an emission stack where:

- a) the discharge point is at least 3 metres above ground level, or
- b) the discharge point is 2.5 metres higher than the apex of any building, tree, slope or other structure within a radius of 2.5 times the stack height (whichever discharge point a) or b) is the higher), and
- c) the exhaust gases are directed vertically into air and the exhaust gases are not impeded by any obstruction that would lower the velocity of the exhaust gases.

Explanatory Note

AQ6.2 To ensure that the plume released from the stack is not affected by downwash effects, therefore creating high ground level concentrations, the stack must be at least 2.5 metres higher than the tallest building or obstacle within the vicinity of the stack (meaning within a circle drawn around the stack with a radius 2.5 times the height of the stack). For example, in a building that has a stack height 5 metres from ground level, there would be a 12.5 metre radius around the stack of potential down wash effects. The discharge point would have to be 2.5 metres higher than any obstacle within this circle in order to achieve good dispersion of emissions from the stack.