

C3 4 Emissions monitoring

4a Monitoring arrangements

Emissions testing will be undertaken annually to check combustion efficiency of the boiler introduced by this variation. Parameters to be monitored are: carbon monoxide; oxides of nitrogen. MCERTS-accredited service providers will be used, as currently for the existing boilers.

No direct monitoring of emissions from the refrigeration plant covered by this application is planned. Fugitive losses will be monitored by recording introductions and any withdrawals of refrigerants in the course of maintenance; these quantities are recorded in the relevant plant log.

4b Monitoring locations

For release point A10, a sample port is installed at the start of the flue, where ducting exits the boiler. The duct is vertical and circular in form; the area of the plane perpendicular to duct is 0.28 m^2 ; the sample port is 9m upstream of the flue exit point.

The duct access port itself is circular, 0.09m diameter; it can be accessed from ground level and more than 2m is available between the access port and any solid fixture.

Flow requirements specified in M1 have not been checked by testing. The sample point is in an exactly analogous position to those on existing boilers and currently used for annual air emissions testing. These do not allow for velocity and temperature profiling to be carried out, according to emissions testing reports. The arrangements are, however, considered adequate and cost-effective for the scale and type of plant present.