



PROJECT SUMMARY

BAT Assessment – Brewery NO_x Emissions

Confidential Client, UK



KEY PROJECT ELEMENTS

- PPC
IMPROVEMENT
- BREWING
INDUSTRY
- ACHIEVING BAT
- ASSESSING THE
IMPACT OF NO_x
EMISSIONS

CRA was commissioned by a UK brewery to carry out an assessment of the options available to reduce the environmental impact of oxides of nitrogen (NO_x) from the installation boilers. The brewery had been issued with a permit to operate under the Pollution Prevention and Control (PPC) Regulations. Under the new PPC permit conditions, the assessment was required as an Improvement Item to ensure that the Operator was using the Best Available Techniques to prevent or minimise impacts of activities on the environment.

CRA reviewed existing air dispersion models for the installation and performed sensitivity analysis to assess the relative impacts of changes to significant variables. New monitoring data for the boiler emissions was obtained and used to develop recommendations on the most effective options to minimise emissions from the boilers, taking into account the identified relative impacts of the significant variables.

A review of recent background NO_x monitoring data in the geographical area was performed in order to establish the significance of reductions in emissions from the installation in terms of predicted ground level NO_x in the vicinity of the installation and at local sensitive receptors.

The options for minimisation of NO_x emission impacts were presented to the client and summarised in a written report.