



Air Pollution and Environmental Consultancy

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Mr Tadhg Boyle
College Proteins
College Road
Nobber
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23 September 2010

Re: An Bord Pleanala -Ref 17.PA0013

Dear Tadhg

I refer to the request in correspondence of 18th June 2010 from An Bord Pleanala re clarification of the issue of GEP and appropriate stack height for the Biomass CHP development.

The revised modelling study undertaken by AWN for the increase in the stack height to 46m demonstrates that there is a small reduction in predicted ground level concentrations of between 1-13% of the National Air Quality Standards. This reflects the slight increase in plume height resulting from the higher level of plume discharge of 46m compared to the the original stack height of 40m. However, the report by AWN concludes that the maximum predicted ground level concentration is "essentially unchanged from the 40m at 49% of the ambient air quality standard". This slight increase in predicted concentrations is minor and occurs close to the College Proteins facility boundary. Therefore in terms of the change in air quality impacts at the nearest private properties to the site from emissions based on a 46m stack compared to those due to a 40m stack the modelling study demonstrates that any reduction in pollutant concentrations is minor or insignificant.

I am satisfied that the proposed stack height of 40m for the CHP development exhaust stack used in the original EIS and presented at the Oral Hearing is adequate to ensure the emissions of pollutants do not result in an exceedance of the NAQS. An increase in height to 46m will not result in a significant change in predicted levels.

Yours sincerely

A handwritten signature in black ink, appearing to read "M.L. Bailey", with a horizontal line underneath.

Michael L. Bailey
Managing Director



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Re: Affects of stack height increase from 40 to 46 m on odours – College Proteins proposed biomass CHP facility.

Date: 23rd Sept 2010

Dear Niall,

I have reviewed the affects of an stack height increase from 40m to 46m on the proposed College Proteins biomass CHP facility and have the formed the following conclusions as a result of this investigation.

1. The proposed College Proteins biomass CHP facility itself contributes a maximum odour concentration to ground level of $0.040 \text{ Ou}_E/\text{m}^3$ at the 98th percentile of hourly averages for 5 years of screened meteorological data for a stack height of 40 metres. The ground level concentration limit value is less than or equal to $1.50 \text{ Ou}_E/\text{m}^3$ at the 98th percentile of hourly averages. The predicted maximum ground level concentration of odour as a result of the proposed College Proteins biomass CHP facility with a 40m stack is 2.66% of the impact criterion.
2. The predicted maximum ground level concentration of odour for a stack height of 46m will be less than or equal to $0.036 \text{ Ou}_E/\text{m}^3$ at the 98th percentile of hourly averages for 5 years of screened meteorological data. The predicted maximum ground level concentration of odour as a result of the proposed College Proteins biomass CHP facility with a stack height of 46 m is 2.40% of the impact criterion.
3. As a result of increasing the stack height from 40m to 46m, there will be a negligible improvement in odour at ground level. This improvement will equate to 0.26% of the overall impact criterion.

I trust this clarifies the query. If you have any queries in relation to this correspondence, please do not hesitate to contact me on the details above.

Yours sincerely,

Brian Sheridan Ph.D Eng

For and on behalf of Odour Monitoring Ireland