



CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

CORK DUBLIN UNITED KINGDOM POLAND SAUDI ARABIA

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Mr. Joe Reilly
Programme Manager
Environmental Licensing Programme
Office of Climate, Licensing & Resource Use
Environmental Protection Agency Headquarters
PO Box 3000
Johnstown Castle Estate
Co. Wexford



05 July 2012

Dear Mr. Reilly

Fehily Timoney & Company provides environmental science and engineering support to WGE Ltd.

WGE is the owner of a gasification unit invented and developed by David Brookes (Brookes Gasification). The Brookes gasification process is a recognised treatment system for Category 2 and Category 3 animal by-products.^{1 2}

WGE has constructed a pilot-scale continuous-feed gasifier and has trialled it the UK using a variety of feedstocks. WGE is currently establishing the pilot plant on the poultry farm of Mr Derek Good of Ardnaclogh, Innishannon, Co. Cork. Mr Good has applied for an IPPC licence for his poultry farm (P0942-01).

WGE intends to trial the gasification unit using poultry litter as a feedstock. Poultry litter is classified as a Category 2 animal by-product. If the trials are successful, Mr Good will apply for an amendment to the site's IPPC licence in order to incorporate a full-scale unit and use it as a substitute for the current oil/gas-fired heating system.

The trials will incorporate testing to confirm that the exhaust emissions do not breach any environmental standards. In that regard, WGE has engaged Environmental Scientifics Group (ESG) to undertake emissions testing.

The pilot-scale plant processes ca. 80 kg per hour. The trials are estimated to process 30 to 40 tonnes of poultry litter.

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WGE and Derek Good see great potential for improved environmental performance at the Ardnaclug poultry farm including:-

- Energy savings by using the heat output from the gasification unit in lieu of the current use of fossil fuel burners,
- Reduction of the poultry litter to a non-nuisance material

In short, the trials will demonstrate that the plant is able to process poultry litter as a fuel on a continuous basis and that it can do so without any adverse environmental effects.

FTC will attend the site during the trials period.

In the event that the Agency or the Department wishes to visit during the trial period, please contact Mr McNamara in advance to determine the testing programme. At present, we estimate that the trials will commence in the week commencing July 16th.

Please contact either the undersigned or Mr Edward McNamara of WGE (086 2457387) if you require any further information

Yours sincerely



Declan O'Sullivan
for and on behalf of **Fehily Timoney & Company**

CC. Mr. Brian Meaney, Office of Climate, Licensing & Resource Use
Chief Veterinary, Officer Department of Agriculture, Food and the Marine
Mr. Derek Good (e-mail)
Mr. Edward McNamara (e-mail)

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