



**Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales**

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6 May 2016

Grays Biogas Ltd, Mona Anaerobic Digestion Plant – CHP G59 Certification

Dear Matthew,

I am writing further to recent correspondence regarding the above matter.

The existing plant is authorised under the Environmental Permitting (England & Wales) Regulations 2010 by permit reference EPR/AP3033HY/V002 as varied 9 May 2012.

As of March 2016, Grays Biogas Ltd applied for a permit variation to change the design and operation of the plant which is now subject to determination by Natural Resources Wales' permitting service.

The operation of the revised plant (currently under construction) is not in accordance with your existing permit, but will be regularised should your application be successful.

We have considered your request to allow limited operation of the plant including the receipt of waste materials, anaerobic digestion and combustion of biogas, prior to the completion of the determination process. This is required to allow Grays Biogas Ltd to obtain G59 certification for the export of power from the CHP unit.

Natural Resources Wales agrees to the limited operation of the plant subject to the following conditions and limitations (unless otherwise agreed in writing);

1. This agreement permits the acceptance of waste, the anaerobic digestion of waste and the combustion of biogas (flaring and use in the CHP) between 18/05/16 and 30/06/16 inclusive.
2. Cow slurry (<2000m³) and glycerine (<20 tonnes) may be accepted and treated on site, no other waste materials or feedstocks are permitted by this agreement. Micronutrients and water may be introduced to the digestion process as required.

3. Cow slurry shall be transferred directly from road tanker to the digester. Glycerine shall be stored in a suitable container within a bunded area to prevent and minimise the risk of release to the environment.
4. Anaerobic digestion and biogas collection shall take place within one post digestion tank only. The digester shall be bunded, fitted with level control / alarms to prevent over filling and control measures to detect and prevent over pressurisation.
5. The post digestion tank may be heated using a temporary boiler (as per the specification provided). Fuel oil / diesel for the boiler shall be stored within a suitable container within a bunded area to prevent a release to the environment.
6. Low calorie biogas displaced from the digester during the initial digestion phase may not be of sufficient calorific value to burn in the flare. Under this agreement only low calorie biogas that is incapable of being flared or otherwise treated shall be vented to atmosphere. The duration and volume of vented low calorie biogas shall be minimised as far as practicable and consideration given to the wind direction and location of sensitive receptors during such venting episodes.

The odour impact of vented biogas shall be regularly assessed by suitably trained site personnel. Additional control measures may be required if venting gives rise to annoyance / complaints.

7. The enclosed flare shall achieve $>1000^{\circ}$ C and have a retention time of 0.3 seconds. The flare will have a flame detector and alarm system to check that ignition has been successful and combustion is taking place. A slam shut valve and flame arrestor shall be used. Flare and CHP operation shall be monitored regularly by suitably competent staff to ensure effective and reliable operation.
8. All complaints (e.g. noise, odour) received directly by Grays Biogas Ltd or via Natural Resources Wales shall be investigated without delay by suitably trained staff to establish the cause and timely remedial measures taken where necessary. All complaints and investigation findings must be reported to Natural Resources Wales without delay by calling 03000 65 3915 during office hours and 0800 80 70 60 out of hours.
9. The Odour Management Plan & Commissioning plan (document reference 3388-819-OMP V1.0) shall be implemented.
10. The plant shall be operated and supervised by suitably trained / competent staff to ensure the impact of operations on the environment is minimised as far as practicable.
11. Digestate arising from this process may be stored within the post digestion tank from 01/07/16 (until further notice) with the purpose of maintaining a viable biomass for the seeding of the digestion process at a later date. No waste / feedstocks shall be added to the digester during this period, heating and mixing of the digestate may occur as

necessary. Residual biogas produced during this phase must be collected and flared if volumes permit.

This agreement is without prejudice to the determination of your current variation application and does not in any way pre-determine the outcome of that application.

Should Natural Resources Wales consider that the operation of the plant under the scope of this agreement is causing or may cause significant pollution then this agreement may be terminated or you may be required to temporarily suspend operations.

Natural Resources Wales may take enforcement action against you if operations lead to an adverse impact on the environment.

Please do not hesitate to contact me should you wish to discuss anything further.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Paul Wright', with a long horizontal line extending to the right.

Paul Wright
Industry Regulation Team Leader