

Newhaven Energy Recovery Facility EPR BV8067IL Report on Fugitive Emissions 2011

1.0 Introduction

This document represents the Report on Fugitive Emissions for Newhaven Energy Recovery Facility (ERF) submitted to the Agency in accordance with Condition 4.1.5 of Environmental Permit BV8067IL:

“The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period”.

For the purposes of this report, fugitive emissions are taken as:

““Fugitive emission” means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.”

1.1 Neighbouring Communities, other Fugitive Emission sources and Sensitive Receptors

Newhaven ERF is situated on North Quay Road, off the A259. The area immediately surrounding the site is industrial. Beyond this, the area is predominately residential. The closest residential receptor is approximately 440m to the West. Located to the North East and East lies Ouse River, a mudflat and a potential sensitive receptor. Neighbouring the site to the south is a Transfer Station also a potential dust, odour, and noise source in this area. Neighbouring the site also to the South is an asphalt manufacturer also a potential, odour, and noise source in this area.

2.0 Odour

Incoming municipal waste for combustion is delivered in covered vehicles or containers. Waste delivery vehicles proceed into the ERF tipping hall where they are directed into a designated unloading bay, their load is tipped directly into the waste storage bunker where waste is mixed and moved by means of large grabs mounted on travelling cranes.

The waste bunker is designed to provide approximately four days storage at normal operating capacity without stacking. The bunker will be cleared zone by zone in rotation to ensure that the waste does not remain in parts of the bunker for long periods where it can degrade and produce odours. It is anticipated that no significant odour will be generated by the storage and combustion of waste.

The tipping hall is maintained under negative pressure by means of an air extraction system to minimise any possible odours escaping from the building.

Regular cleaning of equipment and operational areas such as the tipping hall, roads and drainage channels are carried out as required in order to discourage the generation of odours.

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Odour suppression units are situated on the Feed Hopper floor level and are activated via an automated system, or can be activated as required.

The designated IBA and Ferrous Metal storage bunkers are emptied regularly to prevent the build up of material and the possible release of fugitive odours and dust. The storage bunker is within the fabric of the main building envelope to reduce emissions to atmosphere and is kept under constant supervision during normal operational hours via CCTV.

3.0 Dust

In order to minimise dust arising from the Lime processes. Lime is discharged from sealed bulk powder tankers into a sealed storage silo before use in the flue gas treatment system. Any small spillages during unloading are contained and cleaned up immediately.

APC residue is collected from the process by sealed conveyors within the Flue Gas treatment building and taken to a storage silo that is fitted with a bag filter unit with sequential cleaning. This unit is operated and maintained in accordance with the manufacturer's instructions. The APC residue is collected in such a manner as to reduce the possibility of dust emanating from the site, where the APC residue is discharged directly to sealed bulk powder tankers from on site storage silos. Any small spillages during unloading are contained and cleaned up immediately.

Incinerator Bottom Ash (IBA) and Ferrous Metal material are handled in a wet condition to minimise the generation of off site dust, by passage through the water filled quench bath, subsequent to discharge from the boiler. The designated IBA and Ferrous Metal storage bunker are emptied regularly to prevent the build up of IBA and the possible release of fugitive odours and dust. The storage bunker is within the fabric of the main building envelope to reduce emissions to atmosphere and is kept under constant supervision during normal operational hours via CCTV.

Dust may arise from incoming wastes being tipped or stored. The tipping hall is maintained under negative pressure by means of an air extraction system to minimise any possible airborne dust escaping from the building. Regular cleaning of equipment and operational areas such as tipping hall, roads and drainage channels is carried out as required in order to discourage the generation of dust. Entrance to and from the tipping hall for waste delivery vehicles is via an entrance fitted with an automated fast-acting door which will remain closed outside of delivery times and shut-down periods where practical.

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4.0 Noise

Fugitive noise emissions produced by deliveries of waste and normal plant movements are limited to the hours identified in the planning permission and environmental permit. All doors are kept closed outside delivery times, during shut-down periods or when not required for operational purposes. A strict one-way system is enforced to reduce noise associated with vehicles reversing.

All consumable deliveries are by bulk powder tanker as are APC residue removal to reduce material movement noise when loading or unloading

The majority of the process equipment with the exception of the Air Cooled Condensers and storage silos are within the envelope of the main building fabric to minimise noise emissions impact

VES Staff are aware of the environmental impacts of their work and exercise an appropriate standard of good house keeping, proportionate to the impacts of any potential emissions. Training and competency of staff is controlled by the VES Business Management System. This System covers training, awareness and competence. The company identifies training requirements of its employees and provides suitable resources to ensure they have the required knowledge, skills and expertise to carry out their duties.

5.0 Complaints Handling and Communications

VES has in place a comprehensive system of monitoring and inspection to check odour, dust and noise control measures are functioning effectively at the ERF. However, in the event that a complaint is received, it is important that complaints are properly and systematically dealt with, and acted upon.

The management of complaints is controlled by the VES Business Management System, which states that the Company will maintain a register of all complaints and in all cases managers shall ensure that all complaints have been adequately handled and that any measures necessary to prevent a recurrence have been put in place.

Complaints numbers and severity are monitored and reported to Director level on a monthly basis for review and further action if required

6.0 Sewer

VES has previously reported all emissions to sewer in accordance with table 2.2.8 for batch sampling and testing and in compliance with table S2 for 3-monthly submissions and is therefore not included within this report

Next review date; January 2013 or sooner if new technologies become available.

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