



Non-Technical summary

Brackley Farms Limited



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SITE DETAILS

Wing Complex
Stewkley Road
Buckinghamshire
LU7 0LD

OPERATOR DETAILS

Brackley Farms Limited
The Homme
Hom GreenRoss On Wye
Herefordshire
HR9 7TF

APPLICATION REFERENCE

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1. INTRODUCTION

This document is the Non-Technical Summary (NTS) that accompanies the application for a substantial variation of existing Environmental Permit at The Wing Complex, Buckinghamshire, LU7 0LD. The site is located at National Grid Reference SP 8614 2381.

The variation seeks to add to the permit the following activity:

- 'Local authority activity – Part A(2) or small waste incineration plant (SWIP) to which Schedule 13 of the Regulations applies

Currently, the permit includes burning unprocessed poultry manure generated on site as a Directly Associated Activity (DAA).

The proposed application seeks to change the fuel source for an existing boiler (3.8 MWth) from poultry litter to waste wood (grades A-C).

The application has been prepared by Wiser Environment Limited on behalf of the applicant Brackley Farms Limited.

This NTS summarises the proposed environmental permit application for a Small Waste Incineration Plant (SWIP) at an intensive poultry farm.

The quantity of waste wood (Grades A-C) to be delivered to site is up to 7,500 tonnes per annum.

This NTS should be read in conjunction with the other supporting documents included within the application.

2. APPLICATION

This application is for an Environmental Permit Variation for the operation of small waste incineration plant (SWIP) and has been prepared under the Environmental Permitting (England and Wales) Regulations 2016 (as amended) as well as chapter IV of the industrial emissions directive (IED chapter IV).

Currently, the permit includes burning unprocessed poultry manure generated on site as a Directly Associated Activity (DAA).

The scope of this application is the addition of burning of waste wood (grades A – C) as a DAA, using of the same combustion unit.

2.1. Site Location

The site is located 1 km from the town of Stewkley and 1.6 km from the B4032.



Figure 1 Aerial image of the site, showing the permit boundary in green

2.2. Environmental Setting

The nearest sensitive receptors from the human health and environmental point of view are listed in the Air Dispersion modelling report (FM1516/R1/25), which identified 10 residential receptors, six of which within the Wing Complex, and 2 Ancient Woodlands.

3. PERMITTED OPERATIONS

3.1. Waste Acceptance

The Management System Summary (MSS) (K526.1~09~002) describes the Waste Acceptance and Treatment process for the site.

3.2. Waste Processing

The proposed permit variation application involves the addition of waste wood streams to feedstock used in the combustion unit. The existing boiler will still be used with an additional fuel source of waste wood (Grades A-C) consisting of non-hazardous, pre-classified categories such as clean offcuts, untreated construction timber, and certain types of packaging wood that comply with SWIP regulatory standards.

This combustion unit has a thermal rated input not exceeding 3,800kWth (1.765 MWth), with stack height of 17.52 m and a processing capacity of 1 tonne per hour (far less than the 20MWth threshold of the EU emissions trading scheme, EU ETS).

Currently, the biomass boiler heat and power are currently used for the poultry farming activity.

3.3. Site Management

The operator, Brackley Farms Limited, shall manage and operate the activities:

- a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator because of complaints;
- b) using sufficient competent persons and resources, and
- c) with records demonstrating compliance.

Any person having duties that are or may be affected by the matters set out in the Environmental Permit, shall have access to a copy of it.

The operator shall comply with the requirements of an approved competence scheme.

4. RISK ASSESSMENT & MANAGEMENT

To ensure continued environmental protection and permit compliance, only permitted types of waste wood (Grades A-C) will be accepted and used in the combustion unit. These will exclude any wood contaminated with hazardous substances, including heavy metals or halogenated compounds.

4.1. Emissions to air

Combustion will occur at temperatures high enough to ensure the complete breakdown of pollutants, in line with IED chapter IV. Emissions will be closely monitored, with controls in place for pollutants such as NO_x, SO₂ and dioxins. Particulates will be managed using bag filters and cyclones.

Trial runs using wood waste have been conducted to provide required evidence for the existing combustion plant to be capable of meeting the Permit Emission Limit Values (ELVs).

Moreover, the trial runs confirmed that the existing biomass boiler can achieve residence time and temperature requirements under normal operating conditions (e.g. maximum throughout).

An Air dispersion risk assessment has been carried out which concludes that the parameters assessed are all either screened out or are predicted to be well below the air quality standards.

4.2. Site management

The site is operated by Brackley Farms Limited, a Management System Summary (MSS) (K526.1~09~002) has been developed and is included within the application pack to reflect and control site operations, environmental management, emissions and monitoring. The MSS defines operational and maintenance procedures and details requirements in the event of an accident or incident.

Site management procedures reflect the handling, storage and combustion of waste wood, including regular staff training and record-keeping.

The combustion unit and associated machinery shall be maintained in accordance with manufacturers standards.

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