

## **Technical Standards**

### **Operations**

The operation at Thorngrove farm will be in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming'.

### **Feed**

Selection and use of feed is in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming'.

Protein is reduced over the growing cycle by providing different feeds.

Phosphorus levels in rations are reduced over the production cycle.

Feed storage bins are specifically designed to accommodate the required feeding regime.

### **Housing**

Housing design and management is in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming'.

The housing is well insulated and the sheds have a damp proof course.

The sheds are fully insulated with a U-Value of approximately 0.4 W/m<sup>2</sup>/°C to reduce condensation and heat lost.

The sheds are fan ventilated with a fully littered floor equipped with non-leaking drinking systems. In each of the eight broiler houses ventilation is provided by roof/gable extraction fans with roof/side wall inlets for normal ventilation, with gable end fans on existing houses for cooling purposes.

Litter is kept loose and friable. The quality is regularly inspected to ensure it does not become excessively wet or dry. Steps as described in SGN EPR6.09 'How to comply with your environmental permit for intensive farming' will be taken to rectify any changes to the quality of the litter.

Temperature in the sheds meets the health and welfare needs for the age and number of the birds. Blown hot water radiators are spaced regularly within the sheds to prevent cold spots and extremes of temperature, with some housing having underfloor heating. The fans are fitted with back draft shutters to prevent drafts and unnecessary heat loss.

The shed is accessed via the control room/vestibule area, which prevent drafts.

A computer automatically controls ventilation and heating so that heat is not wasted by being drawn out of the building.

The ventilation management system controls the ventilation rates depending on the health and welfare needs of the birds and the outside weather conditions.

### **General Management**

In accordance with the management system at the farm, the buildings are regularly inspected and maintained. The floors and walls of the sheds are kept clean.

The site is regularly inspected and well maintained.

**Livestock Numbers and Movements**

A system is in place to record the number animal places and animal movements. These records will be available for inspection.

**Slurry spreading and manure management planning - off site-activity**

Litter is not stored at the installation.

Litter is sold to third parties.

Any litter that is exported from the installation has records kept of the quantities, destination and the date of transfer to separate farming businesses.

Contingency arrangements are in place with surrounding farms to accept the manure in case of an emergency.

Litter sold to third parties with destinations, dates and tonnages recorded and assurances from recipients of spreading in accordance with the Code of Good Agricultural Practice.

**Improvement Program**

Not applicable, both new and existing buildings are/will be constructed to BAT.

**Emissions and Monitoring**

Table of emission points

<b>Emission point description/source and location</b>	<b>Source</b>
<b>Air</b>	
Roof/gable fan outlets on Broiler Houses as shown on the site layout plan	Broiler Houses 1 -4
High velocity pipe outlets on Broiler Houses as shown on the site layout plan	Broiler Houses 5 - 8
LPG Tanks	Vents
Vent from fuel oil tank for generators and back up boilers as shown on site layout plan	Generators and back up boiler fuel oil tanks
Exhaust on generators as shown on site layout plan	Generators
Biomass boilers	Exhaust stacks
<b>Land</b>	
French drains	Clean roof and yard water
<b>Water</b>	
Discharge to off-site ditch	Clean roof and yard water

### **Fugitive Emissions**

Appropriate measures for preventing and minimising fugitive emissions are in place in accordance with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming'

Buildings will be constructed to BAT.

Areas around buildings will be kept free from build-up of manure, slurry and spilt feed. Footbaths will be managed so that they do not overflow.

Drainage from animal housing and water from cleaning out will be collected in underground storage tanks as shown on the site drainage plan. Diverter bungs will be used during wash down periods to prevent the contamination of surface water systems and to divert the wash water to the dirty water tanks. Clean drainage systems will not be contaminated.

Drainage from yards contaminated by litter or wash water will be collected in a dirty water tanks.

The wash water tanks will be built to conform to SAFFO and specifications in SGN EPR6.09 'How to comply with your environmental permit for intensive farming'. Spent disinfectants will be added to the dirty water collection tanks.

### **Dust**

Feed is stored in purpose built covered feed silos located next to the broiler sheds.

No milling or mixing of feed takes place at the farm. All feed is delivered to the farm by lorry from feed suppliers. Feed is blown directly from the lorry into the storage silos. Feed is piped from the silos to the sheds minimising dust emissions.

Ventilation systems are operated to achieve optimum humidity levels for the stage of production in all weather and seasonal conditions.

Control of minimum ventilation rates is planned to avoid the build-up of moisture in the house. Ventilation is appropriate to the age and weight of the animal.

The sheds are managed to maintain the poultry litter in as dry and friable condition as possible. Dust is controlled through the management of litter and air quality.

All broiler houses will have either side/gable and roof ventilation outlets. Rainwater run-off will be directed through French drains to off-site ditch.  
Litter is not stored on the site.

### **Carcass management**

Fallen stock is disposed of in accordance with the current Animal By-Products Regulations. Carcasses will be stored in sealed vermin proof containers awaiting regular incineration in a licensed incinerator..

### **Flies/Pest Control**

A pest control contract will be in place using a specialist contractor. Appropriate actions will be put into place to prevent and control flies should a nuisance arise.

### **Bunding and containment**

#### **Agriculture Fuel oil and other chemical storage**

The fuel oil storage tanks for the generator and back up boiler are bunded. The bund meet the requirements of the Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) Regulations 2010 (SSAFO Regulations) and meet the requirements outlined in SGN EPR6.09 'How to comply with your environmental permit for intensive farming'. The tank will be regularly inspected.

Pesticides and veterinary medicines will be kept in a store capable of retaining spillage, resistant to fire, dry, frost free and secure (off site).

#### **Foodstuff**

Feed is kept in silos adjacent to the broiler sheds. No liquid feed is stored at the site. The silos are sited away from site traffic and protected from collision damage by guard rails.

#### **Odour**

There are neighbours (sensitive receptor) within 400m of the farm.

In accordance with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming' see Odour Management Plan.

#### **Noise and vibration**

There are neighbours (sensitive receptor) within 400m of the farm.

In accordance with the SGN EPR6.09 'How to comply with your environmental permit for intensive farming' see Noise Management Plan.