

## **Appendix 7: Technical Standards**

### **Operations**

The operation of the farm will be in accordance with Sector Guidance Note (SGN) EPR6.09.

### **Feed**

Selection and use of feed will be in accordance with the SGN EPR6.09.

Protein will be reduced over the growing cycle by providing different feeds.

Phosphorus levels in rations will be reduced over the production cycle.

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

### **Housing**

Housing design and management will be in accordance with the SGN EPR6.09.

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

The sheds will be fully insulated with a U-Value better than  $0.4 \text{ W/m}^2/\text{°C}$  to reduce condensation and heat lost.

The sheds will be fan ventilated with a fully littered floor equipped with non-leaking drinking systems. The ventilation in all houses will be unchanged with a mixture of high velocity roof fans and end of house fans.

Litter will be kept loose and friable. The quality will be regularly inspected to ensure it does not become excessively wet or dry. Steps as described in the SGN6.09 will be taken to rectify any changes to the quality of the litter.

Temperature in the sheds will meet the health and welfare needs for the age and number of the birds.

Hot water for heating the sheds will be provided by two 995 kilowatt clean biomass boilers and backed up by four 100 kilowatt LPG Boilers for houses A1,A2,A3 and A4. In houses B1, B2, B3, B4, B5 and B6 the backup will be provided by one 1200 kilowatt Kerosene boiler. Hot water radiators are spaced regularly within the sheds to prevent cold spots and extremes of temperature.

The fans will be fitted with back draft shutters to prevent drafts and unnecessary heat loss.

The houses will be accessed via the control rooms, which prevent drafts.

A computer will automatically control 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 will be regularly inspected and maintained. The floors and walls of the sheds will be kept clean.

The site will be regularly inspected and well maintained.

### **Livestock Numbers and Movements**

A system will be 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**

Used litter will not stored at the installation.

All litter is be exported from the installation. Records will be kept of the quantities and the dates of transfer. Some litter is spread on land belonging to the operator. Litter and land are regularly tested for nutrient levels, the operator has a Litter Management Plan and only spreads to land in line with the Code of Good Agricultural Practice

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

Records will be kept of the names and addresses of all receiving farms.

The receiver of any litter spread to land owned by a separate farming business signs a docket that it will be spread in accordance with the Code of Good Agricultural Practice and in accordance with the manure management plan for the receiving land.

### **Emissions and Monitoring**

Table of emission points

<b>Emission point description/source and location</b>	<b>Source</b>
<b>Air</b>	
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House A1
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House A2
High Velocity Roof fan outlets as shown on the site layout plan.	Broiler House A3

High Velocity Roof fan outlets as shown on the site layout plan.	Broiler House A4
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House B1
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House B2
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House B3
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House B4
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House B5
High Velocity Roof fan outlets plus some end of house fans during hot weather as shown on the site layout plan.	Broiler House B6
Emergency pressure release vent on LPG tanks as shown on site layout plan	LPG Tanks
Exhaust on generator as shown on site layout plan	Generators
Air breather on fuel oil tank	Fuel Tanks Integral to Generators. Kerosene Fuel Tank K
Exhaust from bio-mass boiler	Boiler House BB1 Grid Ref. 367156,358179

Exhaust from bio-mass boiler	Boiler House BB2 Grid Ref. 367156,358181
4 Exhausts from LPG boilers	Boiler House GB1
Exhausts from Kerosene boiler	Boiler House KB
<b>Land</b>	
There are identified discharges to land	Roof and yard water goes to 'french' drains, acting as soak aways, before going off site.
<b>Water</b>	
Yard and roof drainage discharge to soak away before entering Red Hall Brook at 366932,358028, leading to R. Weaver at 366430,358180	Uncontaminated surface water from yard areas around the office.

There will be no emissions to groundwater of list I or list II substances.

### **Fugitive Emissions**

Appropriate measures for preventing and minimising fugitive emissions will be in place in accordance with the SGN EPR6.09.

Buildings will be maintained in good repair.

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 an underground storage tank 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 tank.

The wash water tank was built to conform to specifications in SGN EPR6.09.

Spent disinfectants are added to the dirty water collection tanks.

### **Dust**

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

No milling of feed will take place at the farm. Whole wheat may be mixed with pelleted feed within a sealed steel building. All feed will be delivered to the farm by lorry from feed suppliers. Feed will be blown directly from the lorry into the storage silos. Feed will be piped from the silos to the sheds minimising dust emissions.

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

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

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

The minimum ventilation is by high velocity roof fans in all the Broiler houses, some end of house ventilation is used in warm weather.

Rainwater run off around the house is allowed to run off site to Red Hall Brook via soak aways.

Litter will not be stored on the site.

The biomass used in this system will be clean biomass and will not contain any used or recycled material. The biomass will be delivered in to a covered store and unloaded from the wagon via a walking floor system minimising any dust. From the store the biomass is augured in to the boiler using a sealed system to prevent dust escaping in to the atmosphere. The boiler room itself is also sealed again to prevent dust from escaping in to the atmosphere.

### **Carcass management**

Fallen stock will be stored in sealed vermin proof containers prior to collection under the National Fallen stock Scheme.

### **Flies**

There will be no incidents of fly nuisance at the farm. 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 tank for generator will be banded. The bunds meet the requirements of the Control of Pollution (Silage, Slurry and Agricultural Fuel Oil) Regulations 1991 (amended 1997) and meet the requirements outlined in SGN EPR6.09. The tanks will be regularly inspected.

The Liquid Petroleum Gas tanks will be protected from collision damage by guard rails.

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

### **Foodstuff**

Feed will be kept in silos adjacent to the broiler sheds. No liquid feed will be stored at the site.

The silos will be sited away from site traffic and protected from collision damage.

### **Odour**

There are neighbours (sensitive receptors) within 400m of the farm. However the farm has an odour management plan

In line with the SGN EPR6.09 and the H1 assessment refer to Appendix 8 Odour Management Plan

**Noise and vibration**

There are neighbours (sensitive receptors) within 400m of the farm. The farm has a noise management plan in line with the SGN EPR6.09 and the H1 assessment refer to Appendix 9 Noise Management Plan.

**Biomass Boiler**

The Biomass boilers are 995 kilowatt and will use only clean biomass and have an exhaust height of 12 metres. The nearest building is less than 25 metres away and has a ridge height of 6 metres. There are no Special Areas of Conservation, Special Protection Areas, Ramsar Sites or Sites of Special Scientific Interest within 500 metres. There are no National Nature Reserves, Local Nature Reserves, Ancient Woodlands or Local Wildlife Sites within 100 metres. The boiler meets the technical criteria to be able to receive Renewable Heat Incentive. There are no sensitive receptors within 150 metres of the emission point.

The bulk biomass is stored totally separate to the boilers themselves, the biomass is then passed through a sealed auger (dust control) into the boilers. This is standard practice for keeping the bulk of the biomass separate to the 'hot' area where the actual burning takes place effectively preventing cross over between the 2 areas as there is very limited oxygen available to support combustion in the sealed auger and there is also quite a distance between the end of the auger and the fire itself as well as a fire plate that only opens when additional biomass is required. Added to all this there is a monitoring system that should the boiler overheat in any way then it is dowsed with water automatically.

RHI Certificates have previously been submitted

**BAT**

The farm will be compliant with all BAT requirements as set out February 2017