**Dust Management Plan**

**Kirkburn Grange Farm Poultry unit**

Kirkburn Grange Farm Poultry unit operations have sensitive receptors within 100m of the site boundary. The nearest, being operator owned being some 90m in a north-easterly direction.

Operator residence 61m South, NGR 496705,456936

The main possible dust sources/operations are listed below:

1. Feed Deliveries
2. Feeding Systems
3. Bedding
4. Litter management
5. Stock inspections
6. Ventilation
7. Clean out Operations
8. Bird numbers

A table listing these sources with measures to control/reduce dust emissions is listed below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **Method** | **Reduction Technique** | **Implementation** |
| Feed | Feed delivery to Silos  Feed milling  Feed Type  Feed Ingredients  Feed delivery system  Feed spillages | Vents from silos covered to prevent release to atmosphere  No milling undertaken  Use of pelleted feed  Oil coating on pellet  Some use of maize within diets  Sealed pipe delivery into poultry houses, free fall of feed into hoppers minimised, pan feeding system on timed feeding preventing over feeding  Any feed spills cleared up immediately. | In place  N/A  Continuous  Continuous  Limited as not in operator control  In place  Continuous to prevent dust or potential contamination of water course |
| Bedding | Bedding Type | Use of dust extracted shavings | In place |
|  | Bedding depth  Bedding application | Sufficient layer to absorb moisture produced during crop cycle  Base layer spread inside houses with minimum ventilation running, top up bedding in sealed plastic bales | In place  In place |
| Biomass | Boiler ash | Stored in sealed containers awaiting disposal with litter under exemption | In place |
| Litter Management | Excessive dry litter | Computer controlled environment | Relative humidity controlled between 55 and 65% keeping balance between dust and odour production |
| Stock inspections | Increased bird activity | Stock inspections by trained personnel | Light levels reduced to prevent birds panicking and reduced stress |
| Ventilation | Ventilation Type | Use of roof extraction fans on houses 5 – 10. | In place on houses 5&6 increasing dispersion/concentration |
| House Cleaning | Dust production during de littering/cleaning operations | No double handling of litter, trailers parked close to doors, litter tipped carefully into trailers, trailers sheeted prior to leaving site.  Care taken during cleaning process to minimise both release of dust to atmosphere and escape of contaminated water  Exhaust vents washed under low pressure minimising dust release to atmosphere and lightly contaminated water to drainage system | In place/continuous  In place/continuous |
| Bird numbers | Stocking Density | Stocking rate determined by integrator | N/A |

**Plan completed April 2023**

Plan to be reviewed every four years or following a substantiated complaint, with Area officer being notified of any changes for approval.

Version 1 April 2023