**Dust/Bioaerosol Management Plan**

**Painsbrook Farm**

Painsbrook Farm operations have sensitive receptors within 100m of the site boundary.

The table below list receptors within 100m.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Receptor Name | Description | Distance | Orientation | National Grid Reference |
| Residential | Residential | 83m | West | 353064, 321190 |
| Commercial | Commercial | 6m | West | 353214, 321245 |
| Residential | Residential | 68m | West | 353109, 321205 |
| Commercial | Commercial | 54m | West | 353011, 321161 |
| Residential | Residential | 10m | West | 353137, 320949 |
|  |  |  |  |  |

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  Bins and delivery pipe work | 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, feed piped down into hoppers minimising dust, chain feeding system on timed feeding preventing over feeding  Any feed spills cleared up immediately.  Daily visual checks on integrity of bins and pipework, not to be used if a defect is found. | 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 | Bedding layer will be either green sawdust which has high moisture content minimising dust or dust extracted shavings, not blown into poultry house. Shavings spread inside house with only minimum ventilation in operation to minimise dust release. Top up bales spread during cycle with light intensity reduced to prevent birds panicking minimising dust. | In place  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 roof extraction/gable fans on houses 1 - 3 | In place on all houses increasing dispersion/concentration |
| House Cleaning | Dust production during de littering/cleaning operations | Litter removed carefully during cleanout minimising dust. Full trailers sheeted before leaving installation.  Houses and exhaust vents pre-soaked with low pressure hose to minimise dust release. Exhaust vents then high pressure hosed minimising any lightly contaminated water release onto roofs. | In place/continuous  In place/continuous |
| Bird numbers | Stocking Density | Stocking rate determined by integrator | N/A |

**Version 1 July 2023**

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