**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 SilosFeed millingFeed TypeFeed IngredientsFeed delivery systemFeed spillagesBins and delivery pipe work | Vents from silos covered to prevent release to atmosphereNo milling undertakenUse of pelleted feedOil coating on pelletSome use of maize within dietsSealed pipe delivery into poultry houses, feed piped down into hoppers minimising dust, chain feeding system on timed feeding preventing over feedingAny feed spills cleared up immediately.Daily visual checks on integrity of bins and pipework, not to be used if a defect is found. | In placeN/AContinuousContinuousLimited as not in operator controlIn placeContinuous to prevent dust or potential contamination of water course |
| Bedding | Bedding Type | Use of dust extracted shavings | In place |
|  | Bedding depthBedding 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 placeIn 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/continuousIn 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.