**Dust Management Plan**

**Shucknall Poultry Farm**

**Overview**

In the planning of the construction of the site layout consideration has been given siting main operational activities away from the nearest receptors to the southwest of the site. Prevailing wind is from the southwest.

The following plan has been prepared as part of the EPR permit application.

The following tables highlight the likely sources of dust arising from broiler production at Shucknall Poultry Farm.

Actions and measures are listed that will prevent where possible or minimise dust emissions at Shucknall Poultry Farm.

Site plan shows all material storage areas and potential dust emission sources.

Plan to be reviewed every year from permit issue date, prior to any major changes to operations (to ensure effectiveness) or following any complaint, any changes to DMP or other management plans to be documented dated and signed and Area Officer notified.

Actions and preventative measures in DMP referenced from Bioaerosol Assessment Document and Fugitive Emissions Assessment in line with the H1 Risk Assessment, to be implemented in conjunction with the following key documents;

Emergency Plan

Technical Standards

Routine Maintenance Schedule

Key responsibility for the DMP and the referenced plans are the Operator or deputies who have been briefed on the requirements.

The table below lists receptors within 100m of the boundary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Receptor Name | Description | Distance | Orientation | National Grid Reference |
| Residence | Staff dwelling | 5m | East | 358945, 242369 |
| Residence | Dwelling | 63m | Southwest | 358778,242258 |
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| --- | --- | --- | --- |
| **Dust Related Issue** | **Potential Risks and Problems** | **Actions taken to minimise dust risks at Shucknall Poultry Farm** | **Completion date** |
| Feed delivery and storage  Manufacture and selection of feed | Release of dust when filling silos  Milling and mixing of compound feeds. | Silo vents fitted with dust cyclones preventing dust release to atmosphere  Any spillage of feed around the bin is immediately swept up.  The condition of feed bins is checked frequently so that any damage or leaks can be identified.  Feed deliveries are monitored to avoid dust and spills.  No on-site milling and mixing. Sealed system.  Feed drops minimised and hoppers covered  Feed specifications are prepared by the feed compounder’s nutrition specialist.  Feed is supplied only from UKAS accredited feed mills, so that only approved raw materials are used. | In place  In place  In place  In place  In place  In place |
| Ventilation and heating  Systems | Inadequate air movement in the house  Extraction fans located close to sensitive receptors. | Use of extraction fans to aid dispersion checked prior to cycle commencement by qualified electrician who will provide 24hr breakdown cover  Poultry houses screened by extensive hedges.  The ventilation and heating system is regularly adjusted to match the age and requirements of the flock.  Humidity recorded daily and maintained in the range of 55 – 65% keeping a balance of dry litter and avoiding dust production.  Stock inspections carried out by trained staff to avoid panicking birds creating dust.  Ventilation outlets cleaned between cycles using low pressure washing minimising dust release | In place  In place  In place  In place  In place |
| Litter management | Dust arising from litter (see above). | Controls on feed and ventilation (see above) help to maintain litter quality.  Stocking levels at optimum to prevent overcrowding.  Use of veterinarian bespoke health plan.  Use of dust extracted shavings. | In place |
| Carcase disposal | Inadequate storage of carcasses on site | Carcasses placed into plastic sealed bags, stored in sealed, shaded and vermin proof containers away from sensitive receptors. | In place |
| House clean out | Creation of dust associated with litter removal from houses | Houses sealed immediately following depletion of birds. Minimum ventilation employed during de-littering, houses sealed immediately following de-littering awaiting washing.  Litter carefully placed into trailers positioned close to doors.  Trailers sheeted before leaving fill position.  Litter out carried out within 24 hours following destocking. | In place  In place  In place |
| Used litter | Transport of litter to third party. | All trailers sheeted before leaving fill position.  Avoidance of double handling. | In place |
| Fugitive emissions | Leaks to doors, bin pipes, feed bins | Checks to feed storage and fill pipes as per routine maintenance schedule. | In place |

**Plan completed August 2024**

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

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