

Odour Management Plan

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

The following tables highlight the likely sources of odour arising from poultry broiler production at Bedfordia Farm Poultry unit.

Actions and measures are listed that will prevent where possible or minimise odour emissions at Bedfordia Farm Poultry unit.

Site plan shows all material storage areas and potential odour 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 OMP or other management plans to be documented dated and signed and Area Officer notified.

Actions and preventative measures in OMP referenced from Odour 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 OMP and the referenced plans are the Operator or deputies who have been briefed on the requirements.

Example Odour Complaint form attached.

Introduction

Westwood Farm poultry operations has sensitive receptors within 400m of the installation boundary. The prevailing wind direction is from the south west. The majority of receptors are not in the prevailing wind direction.

The table below lists all sensitive receptors nearby.

Receptor Name	Description	Distance	Orientation	National Grid Reference
Westwood AD plant	Commercial	560m	South west	498909,263201

Odour Related Issue	Potential Risks and Problems	Actions taken to minimise odour and odour risks at Bedfordia Poultry Farm	Completion date
Broiler Production	Potential Odour release	Twice daily olfactory checks by persons not directly involved in poultry production	In place
Manufacture and selection of feed	Milling and mixing of compound feeds. The use of poor quality and odorous ingredients. Feeds which are 'unbalanced' in nutrients, leading to increased excretion and litter moisture and emissions of ammonia and other odorous compounds to air.	No on-site milling and mixing. Feed specifications are prepared by the feed compounder's nutrition specialist. Feed is supplied only from UKASTA accredited feed mills, so that only approved raw materials are used. Protein is reduced in accordance with SGN EPR6.09 'How to comply with your environmental permit for intensive farming' 'How to comply with your environmental permit for intensive farming'.	In place
Feed delivery and storage	Spillage of feed during delivery and storage. Creation of dust during feed delivery.	Feed delivery systems are sealed to minimise atmospheric dust. 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.	In place

<p>Ventilation and heating Systems/Dust</p>	<p>Inadequate air movement in the house, leading to high humidity and wet litter</p> <p>Inadequate system design, causing poor dispersal of odours. Extraction fans located close to sensitive receptors.</p> <p>Dust</p>	<p>Use of high velocity roof extraction fans to aid dispersion, checked prior to cycle commencement by qualified electrician who will provide 24hr breakdown cover</p> <p>The ventilation and heating system is regularly adjusted to match the age and requirements of the flock.</p> <p>The ventilation system is designed to efficiently remove moisture from the house.</p> <p>Gable end fans operated only during hot weather to aid cooling.</p> <p>Indirect heating system giving lower humidity levels.</p> <p>Humidity recorded daily and maintained in the range of 55 – 65% keeping a balance of dry litter and avoiding dust production.</p> <p>Stock inspections carried out by trained staff to avoid panicking birds creating dust.</p>	<p>In place</p>
<p>Litter management</p>	<p>Odours arising from wet litter (see above).</p>	<p>Controls on feed and ventilation (see above) help to maintain litter quality.</p> <p>Additional controls include:-</p> <p>Use of nipple drinkers with drip cups to minimise spillage.</p> <p>Daily checks of drinker height and pressures to avoid capping.</p> <p>Insulated walls and ceilings to prevent condensation.</p> <p>Concrete floors to prevent ingress of water.</p> <p>Stocking levels at optimum to prevent overcrowding.</p> <p>Use of veterinarian bespoke health plan.</p>	<p>In place</p>
<p>Carcase disposal</p>	<p>Inadequate storage of carcasses on site.</p>	<p>Carcasses placed into plastic sealed bags, stored in sealed, shaded and vermin proof containers away from sensitive receptors. Frequent collection by approved renderer.</p>	<p>In place</p>

House clean out	<p>Creation of dust associated with litter removal from houses.</p> <p>Use of odorous products during cleaning.</p>	<p>Litter carefully placed into trailers positioned close to doors.</p> <p>Trailers sheeted before leaving fill position.</p> <p>Only DEFRA approved and suitable products used. Chemical containers triple washed at point of use.</p> <p>Wash water tank levels monitored during washing and emptied as required to prevent overflow.</p> <p>Clean out carried out as soon as possible following destocking. (1 day)</p>	<p>In place</p> <p>In place</p>
Used Litter	<p>Storage of used litter on site.</p> <p>Transport of litter and land spreading.</p>	<p>No storage on site at any time.</p> <p>All trailers sheeted before leaving fill position.</p> <p>Avoidance of double handling.</p> <p>Any land spread under the control of separate farming business with written agreement.</p> <p>Spread in strict accordance with Manure Management Plan.</p>	In place
Washing operations including vehicles	Loss of dirty water to Land or Watercourse	<p>Use of specialist contractors for washing operations.</p> <p>Bespoke terminal hygiene program followed, detailing quantities of water and chemical dilution rates.</p> <p>Key staff monitoring washing operations ensuring effective drainage to dirty water tanks.</p> <p>Dirty water tanks monitored during wash down to maintain freeboard.</p> <p>Vehicle washing at designated wash point.</p> <p>All sediment traps and drains cleaned both before and after washing operations</p>	In place
Fugitive emissions	Leaks to doors, bin pipes, feed bins, fuel and chemical storage	<p>Checks to feed storage and fill pipes as per routine maintenance schedule.</p> <p>Fuel oil in approved bunded storage tank.</p> <p>Chemicals in secure bunded shed free from frost and unauthorised entry together with any veterinarian products/medicine</p>	In place

Dirty water management	Standing dirty water during the production cycle or at clean out. Application of dirty water to land.	Working areas around houses are concreted and kept clean during production cycle. At clean out dirty water from houses together with lightly contaminated yard wash is directed to the underground storage tanks, before being removed off site and spread to land under control of a separate farming business. Written agreement is in place.	In place
Abnormal operations	Water leak/pipe failure Bird health/sickness	Water consumption monitored daily ensuring early detection, wet area blanket covered with top up bedding material to prevent increased odour. Veterinarian contacted (24hour cover) Litter covered with fresh top up bedding to minimise increased odour until bird health recovered. Abnormal events documented, dated and signed, appropriate plans reviewed and updated to prevent reoccurrence ie. Routine maintenance schedule, Technical standards	In place
Waste production/storage	Odour from production or storage areas	No storage or production of odorous waste on site. Waste management plan in force detailing types and quantities produced along with disposal routes. Records kept on site.	In place
Materials/storage	Potential odour source	Feed delivered into sealed vermin proof silos. Sealed delivery system into poultry houses with no milling or mixing on site. Remaining feed at end of cycle stored in sealed silo and used on subsequent cycle. 3 month shelf life of feed negating the need for removal. Raw materials inventory recorded and kept on site. Cleaning chemicals kept in frost free secure bunded storage area, Chemical spill kit available.	

Complaints Procedure

In the event of a complaint being received Area Officer will be notified immediately, the cause will be investigated, and contingency measures implemented to remedy the cause. This will be measured by visual inspection or verified by the odour monitoring procedure to ensure the issue has been resolved, the odour management will be reviewed with any changes documented and agreed with Area Officer, this will be documented as well as a complaint form being filled in.

As a minimum Odour Management Plan to be reviewed annually.

Contingency Measures

Odour Contingency				
Source	Cause	Trigger Point	Action	Measurement
Feed delivery and storage	Pipe or bin failure causing leak	Identified during daily checks	Repair to pipe work or feed bin with immediate effect, use other bins, spills cleaned up immediately. Integrity of pipe work and bin checking frequency reviewed and updated in routine maintenance and inspection	Visual inspection Repairs recorded

			document, with changes recorded and dated. Within 24 hours	
Carcass storage and disposal		Odour detected during odour checks	Carcasses removed from store into additional storage bins. Within 1 hour	Odour rechecked and documented
Variations in stocking density/bird health	Density/illness.	Checked twice daily during stock inspections	Veterinarian advice sought immediately for bird illness with additional bedding added to prevent/minimise odour release. Document and record abnormalities. Ensure stocking density complies with BAT standards and bird permit places. Within 24 hours	Veterinarian advice followed
Drinker systems	Leaky systems/pipe failure	Visual inspection and daily recording of water consumption versus target consumption	Any leaks repaired immediately. Wet areas covered with additional bedding to minimise odour. Arrange system integrity testing at cycle end, findings to be documented and recorded, pipe work/system parts to be replaced as per report. Within 1 hour	Visual inspection of drinker system, consumption in line with bird targets

Bird depletion	Fugitive odour release	Odour detected during odour checks	Increase ventilation rate to prevent fugitive release of odour, review OMP with any changes documented and recorded and submitted to Environment Agency Area Officer for approval.	Odour rechecked until detection level drops
Litter Removal	Fugitive odour release	Odour detected during odour checks	Increase ventilation rate to prevent fugitive release of odour, review OMP with any changes documented and recorded and submitted to Environment Agency Area Officer for approval. Within 1 hour	Odour rechecked hourly until detection level drops
Washing operations/dirty water	Odour release from drainage/storage	Odour detected during odour checks	Arrange drainage integrity testing and drain cleaning, record and document findings. Dirty water tanks filled with clean water and agitated prior to removal to remove any possible sediment/stagnation. Within 24 hours	Odour rechecked until detection level drops
Litter/manure	Wet litter	Odour detected during odour checks	Additional bedding applied to maintain dry friable litter immediately.	Odour rechecked until detection level drops

Dust build up	Dusty litter	Odour detected during odour checks	House environment automatically controlled by computer environmental control system. Within 2 hours	Odour rechecked until detection level drops
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Key Responsibilities

Task	Staff position responsible
Olfactory Checks	Site Manager
Overseeing /monitoring feed deliveries	Site Manager
Sweeping up spillages around feed bins	Site Manager
Checking condition of feed bins	Site Manager
Adjusting ventilation and heating system	Site Manager
Stock inspections	Site Manager
Daily checks on drinker height & pressures	Site Manager
Carcass disposal	Site Manager
Checking Carcass bins for damages/leaks	Site Manager
Monitoring wash water tank levels and organising emptying of tanks	Site Manager
Cleaning of sediment traps/drains	Site Manager

Checks to feed storage and fill pipes	Site Manager
Monitoring water consumption to detect leaks/pipe failure	Site Manager
Documenting /reviewing abnormal events	Site Manager
Reviewing annual plans	Site Manager
Complaints log	Site Manager

Odour Complaint Form

Installation Name	Date Recorded	Reference Number
Name and Address of caller:		
Tel. No. of caller		
Location of caller in relation to Installation		

Time and Date of complaint	
Date, Time and duration of Offending odour	
Callers description of odour	
Has the caller any other Comments about the odour?	
Weather conditions	
Wind strength and direction	
Any previous complaints Relating to this odour?	
Any other relevant information	

Potential odour sources that could give rise to the complaint			
Operating conditions at the time offending odour occurred			
Follow up Date and time caller contacted			
Action taken			
Amendment requirement to Odour Management Plan			
Form completed by		Signed	

