

**Pollution Prevention and Control (Northern Ireland)
Regulations 2003**

**Example – Odour Management Plan Template, Laying
Hens**

Northern Ireland Environment Agency

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Record of changes

Version	Date	Change
1	April 2007	Initial version

Document B2.3.6 – Odour Management Plan – Layers

Introduction

This Plan has been prepared as part of the IPPC permit application because there are sensitive receptors (neighbouring dwelling houses) within 400 metres of the installation.

The purpose of this Plan is to: -

- Establish the likely sources of odour arising from a typical laying hen unit.
- Set out the procedures followed at <name> Farm in order to prevent or minimise odour levels.
- Formalise the procedures for dealing with any odour complaints.

The table on pages 2 and 3 of this document sets out the likely sources of odour and the procedures followed to minimise odour levels.

Odour Complaint Procedures

- Any odour complaint received will be dealt with by the operator <Name>.....of the farm.
- If a complaint is made, the form included on page 4 of this Plan will be completed and this will be available for inspection by the Environment and Heritage Service.
- Information will normally be collected by visiting the complainant, although in some cases, contact may be made by telephone.
- After details of the complaint have been compiled, the cause(s) will be investigated, with reference to:
 - The activities taking place on the farm at the time.
 - The timing of the complaint and whether weekday, weekend etc.
 - The weather conditions at the time.
- The likely reasons for the complaint will be added to the form and the complainant will be contacted as appropriate.
- The feasibility of making changes to the activities responsible for the complaint will be considered. If changes are made, the Odour Management Plan will be amended accordingly.

Review Procedures

The plan shall be reviewed at least every three years or as soon as practicable after a complaint (whichever is the earlier) and changes recorded in the Table on page 6 of this plan.

Typical Odour Sources and Actions Taken to Minimise Odours

Odour Related Issue	Potential Risks and Problems	Actions taken to minimise odour and odour risks at <name> Farm
Manufacture and selection of feed	<ul style="list-style-type: none"> • Milling and mixing of compound feeds. • The use of poor quality and odourous ingredients. • Feeds which are 'unbalanced' in nutrients, leading to increased excretion and manure moisture and emissions of ammonia and odorous compounds to air. 	<ul style="list-style-type: none"> • No on-site milling and mixing will be undertaken. • Feed specifications are prepared by the feed compounder's nutrition specialist • Feed is supplied only from UFAS accredited feed mills, so that only approved raw materials are used.
Feed delivery and storage	<ul style="list-style-type: none"> • Spillage of feed during delivery and storage. • Creation of dust during feed delivery. 	<ul style="list-style-type: none"> • 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.
Ventilation system	<ul style="list-style-type: none"> • Inadequate air movement in the house, leading to high humidity and wetter manure. • Inadequate system design, causing poor dispersal of odours. 	<ul style="list-style-type: none"> • The ventilation system is regularly adjusted according to the requirements of the flock. • The ventilation system is designed to efficiently remove moisture from the house.
Manure management	<ul style="list-style-type: none"> • Odours arising from wet manure. • Spillage of water from drinking systems. • Disease outbreaks, leading to wetter manure. • Ingress of water to manure stores. 	<ul style="list-style-type: none"> • Controls on feed and ventilation (see above) help to maintain manure quality. Additional controls include:- • Air drying of manure. • Use of nipple drinking systems which minimise spillage. • Insulated walls and ceilings to prevent condensation. • Concrete floors in deep pits to prevent water ingress. • Preventing rain water entering external manure stores. • Use of a health plan, with specialist veterinary input used as necessary.
Carcass disposal	<ul style="list-style-type: none"> • Inadequate storage of carcasses on site. • On-site disposal of carcasses by incineration. 	<ul style="list-style-type: none"> • Carcasses are placed in sealed containers immediately after they are removed from the house and removed from the site once or twice weekly. • Use of a purpose-designed incinerator which is approved by DARD.

Odour Related Issue	Potential Risks and Problems	Actions taken to reduce odours and risks at this installation
House Clean Out	<ul style="list-style-type: none"> • Creation of dust and odours associated with manure removal from houses. • Use of odorous products to clean houses. 	<ul style="list-style-type: none"> • Manure is carefully loaded into trailers positioned at the entrance to each house. When full, the trailer is covered. • Only approved and suitable products are used.
Manure storage	<ul style="list-style-type: none"> • Storage of manure on site. • Transport of manure and applications to land. 	<ul style="list-style-type: none"> • There is no storage of manure outside the houses at any time, OR. • Manure is stored in a dry covered store with sealed floors and an effluent collection system. • Manure is transported in covered trailers. • Most manure is land-spread on land belonging to third parties in accordance with a Nutrient Management Plan and the DARD codes of good practice.
Dirty water management	<ul style="list-style-type: none"> • 'Standing' dirty water during the production cycle or at clean out. • Applications of dirty water to land. 	<ul style="list-style-type: none"> • Areas around the house are concreted and remain clean during the production cycle. • At clean-out, dirty water is directed to underground tanks for storage. It is then spread onto land in accordance with the DARD code of good practice.

Improvement programme to reduce odours - examples

Odour problem	Remedial action needed to reduce odour	Completion date	Ref: Farming rule (if applicable)
Odour from carcass skip during hot weather	Improve sealing of cover on skip, increase frequency of carcass collection to twice weekly during summer months.	May 2007	2.3.6
Odour from manure pit.	Improve ventilation to the pit to increase manure drying.	October 2009	2.3.6
Odour from around sheds	Improve hard standing below side ventilation fans to allow dust to be regularly cleaned up.	November 2008	2.3.6

Note: The above are examples of improvements that may be required in some circumstances. If they are not relevant to your situation they can be deleted. If you have identified improvements that are required to reduce odours on your farm, please detail them using the table above.

Odour Complaint Report Form

Installation to which complaint relates	Date recorded	Reference number
Name and address of caller (complainant)		
Telephone number		
Details of complaint		
Date, time and duration of offending odour		
Odour description e.g. comparison with other odours, strong / weak, continuous, fluctuating		
Any other comments from complainant		
Weather conditions (e.g. dry, rain, fog, snow)		
Wind strength and direction (e.g. light, steady, strong, gusting) or use Beaufort scale		
Any other previous complaints relating to this odour?	Yes / No	
Any other relevant information		
Potential odour sources that could give rise to the complaint		
Operating conditions at the time offending odour occurred e.g. removing manure, clean-out		
Follow-up		
Date and time caller contacted		
Action taken		
Amendment required to the odour management plan?	Yes / No	
Form completed by		Signed

