

## Odour Management Plan version 1

### Introduction

This plan has been prepared as part of the application for an EPR permit because there are sensitive receptors (neighbouring dwelling houses and commercial premises) within 400 metres of the installation (Barn Farm). Nearest is bungalow next to site for employees family, next two dwellings at Norfolk Wildlife Park and visitors to the Park within 200m, next at Windy Ridge & Walsis' Farm within 400m. Met office climate report for Eastern England notes wind is from between south and north-west most of the time, blowing odour away from households, especially helpful in summer when people are more likely to have windows open and to be outside. Northerly winds in spring time most likely to carry odour towards nearest households.

The following table sets out:-

- Likely sources of odour arising from the breeder unit;
- Procedures followed or planned at Barn Farm in order to prevent or minimise odour levels.

### Odour sources and actions to minimise odour

Odour related issue	Potential risks and problems	Actions taken to minimise odour risks at Barn Farm	Completion date
Ventilation and heating systems	<ul style="list-style-type: none"> <li>• Inadequate air movement in the house, leading to high humidity and wet litter</li> <li>• Inadequate system design, causing poor dispersal of odours</li> <li>• Extraction fans located close to sensitive receptors</li> <li>• Electricity supply disrupted.</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Installed high velocity fans with chimneys on roof to exhaust air faster, higher &amp; better odour dispersal</li> <li>• Regularly clearing dust deposits from around vents to prevent build up</li> <li>• Installed computer controlled ventilation and heating systems and regularly adjusted to match age, weight and health requirements, and avoid excessive humidity, manure with low dry matter content, wet litter, ammonia and odour</li> <li>• Maintaining a preventive maintenance programme &amp; record keeping for buildings and equipment with employees and professional contractors</li> <li>• Installed package generator if electricity supply is disrupted.</li> </ul>	In place

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Litter management	<ul style="list-style-type: none"> <li>• Odours arising from wet litter (see above)</li> <li>• Insufficient or poor quality litter</li> <li>• Disease outbreak leading to wet litter.</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Insulated walls &amp; ceilings to prevent condensation</li> <li>• Concrete floors to prevent water ingress</li> <li>• Controls on feed and ventilation (see above) help to keep litter dry &amp; friable</li> <li>• Monitoring litter daily/weekly and problems with dampness rectified or replacing litter from a stock kept on site</li> <li>• Maintaining a preventive maintenance programme &amp; record keeping for buildings and equipment with employees and professional contractors</li> <li>• Using a Health Plan with professional veterinary input as required</li> <li>• Installed package generator if electricity supply is disrupted.</li> </ul>	In place
Drinking systems	<ul style="list-style-type: none"> <li>• Water spillage from drinking systems</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Installed nipple drinkers to minimise spillage</li> <li>• Checking daily to detect leaks and avoid capping</li> <li>• Maintaining a preventive maintenance programme &amp; record keeping for buildings and equipment with employees and professional contractors.</li> </ul>	In place

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Manufacture and selection of feed	<ul style="list-style-type: none"> <li>• Milling and mixing of compound feed</li> <li>• Use of poor quality and odorous ingredients</li> <li>• Feeds which are 'unbalanced' in nutrients, leading to increased excretion and litter moisture and emissions of ammonia and other odorous compounds to air.</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Feed specifications prepared by nutrition specialist</li> <li>• Supplied from certified mills in assurance schemes so only approved raw materials being used</li> <li>• Feeding is precisely controlled, poultry meal is weighed into every house to provide every bird with sufficient energy, protein and nutrition for egg production and without wasting feed or exceeding their target body weight</li> <li>• No on-site milling or mixing.</li> </ul>	In place
Feed delivery and storage	<ul style="list-style-type: none"> <li>• Spillage of feed during delivery and storage</li> <li>• Creation of dust during feed delivery.</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Installed package silos, pipes and augers</li> <li>• Installed package cyclone dust collectors so dust is collected for use, reducing waste and lessening odour release too.</li> <li>• Deliveries twice per week, typically less than an hour</li> <li>• Deliveries are monitored to avoid dust and spills</li> <li>• Any spillage is immediately cleared up</li> <li>• Maintaining a preventive maintenance programme &amp; record keeping for buildings and equipment with employees and professional contractors.</li> </ul>	In place
Stocking and destocking	<ul style="list-style-type: none"> <li>• Creation of dust associated with moving chickens in and out</li> </ul>	<ul style="list-style-type: none"> <li>• Stocking and destocking every 13 weeks when a pair of poultry houses have completed a cycle, mostly at night time and only takes a few hours each time</li> <li>• Live bird handling modules nearly always covered to protect chickens, and also limits dust and odour.</li> </ul>	In place

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Litter removal	<ul style="list-style-type: none"> <li>• Creation of dust associated with litter removal from houses</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Generally considered to be most odorous activity</li> <li>• Removed every 13 weeks when a pair of poultry houses have been destocked and only takes a few hours to empty each</li> <li>• Removed and houses cleaned out as soon as possible, maybe as soon as the house is destocked but normally no more than 3 days on Friday and cleaning out on Monday</li> <li>• Litter carefully loaded directly into trailers positioned outside the doors so no double handling</li> <li>• Full trailers covered before leaving</li> <li>• No used litter is stored on site</li> <li>• Site Manager is responsible for investigating complaints, remedial &amp; follow up action &amp; record keeping, including any changes to the Odour Management Plan.</li> </ul>	In place
House clean out	<ul style="list-style-type: none"> <li>• Use of odorous products to clean houses.</li> </ul>	<p>Measures are described in How to comply – Intensive Farming:-</p> <ul style="list-style-type: none"> <li>• Cleaning out as soon as possible, maybe as soon as the house is destocked but normally no more than 3 days on Friday and cleaning out on Monday</li> <li>• Clearing dust deposits from around vents</li> <li>• Only using suitable and approved products</li> <li>• Dirty water collected in an underground tank designed to have sufficient storage capacity</li> <li>• Keeping drains clear of litter, etc to avoid backing-up, pooling, over spilling on any unmade areas</li> <li>• Maintaining a preventive maintenance programme &amp; record keeping for buildings and equipment with employees and professional contractors.</li> </ul>	In place

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Dirty water tank	<ul style="list-style-type: none"> <li>• 'Standing' dirty water during the production cycle or at clean out</li> <li>• Offensive odour from tankers emptying dirty water tanks.</li> </ul>	Measures are described in How to comply – Intensive Farming:- <ul style="list-style-type: none"> <li>• Installed dirty water storage tank underground</li> <li>• Areas around the houses are concreted &amp; kept clean during the production cycle</li> <li>• Regularly emptied by professional contractors to prevent stagnation</li> </ul>	In place
Carcass disposal	<ul style="list-style-type: none"> <li>• Inadequate storage of carcasses on site</li> </ul>	Measures are described in How to comply – Intensive Farming:- <ul style="list-style-type: none"> <li>• Storing in plastic bags and secure containers</li> <li>• Containers must be kept covered at all times</li> <li>• Containers located away from sensitive receptors</li> <li>• Frequently removed by an approved transporter under the National Fallen Stock scheme</li> <li>• Frequency can be increased anytime.</li> </ul>	In place
Waste disposal	<ul style="list-style-type: none"> <li>• Inadequate storage of waste on site</li> </ul>	Measures are described in How to comply – Intensive Farming:- <ul style="list-style-type: none"> <li>• Carcasses must not be deposited in any waste skip and any putrescible material put in bags</li> <li>• Waste containers must be kept covered at all times</li> <li>• Containers located away from sensitive receptors</li> <li>• Frequently removed by a registered carrier</li> <li>• Frequency can be increased anytime.</li> </ul>	In place

Permit reference EPR/NP3135JA, Cobb Europe Ltd, Barn Farm

### **Odour Management Plan version 1**

This plan must be reviewed every 4 years from the permit issue date or after any complaint.

Monitoring for emissions beyond the site boundary which maybe causing annoyance

A documented monitoring plan will be implemented and maintained in the farm's environmental management system with training for the Farm Manager and employees. The plan will include responsibilities for the Farm Manager to ensure employees are checking for potential odour, noise or dust emissions beyond the site boundary which maybe causing annoyance to residents or businesses, checking wind speed, direction, outside temperature and record keeping.

Investigating complaints

The monitoring plan will include responsibilities for the Farm Manager for promptly investigating complaints where emissions are causing annoyance to neighbouring residents and businesses beyond the site boundary. Including responsibility for implementing indicative actions described in this management plan to stop or minimise the cause of annoyance, follow-up review with the complainants, making changes to the management plan following a review of its effectiveness and record keeping.