

Housing Review

This Housing Review was undertaken following the methodology in Sector Guidance Note EPR 6.09 – How to comply with your environmental permit for intensive farming - Appendix 7 - Undertaking a housing review (Version 3, February 2012).

Name of Building	Function	Is Building Management BAT or not BAT?	Is Building Design BAT or not BAT?	Is it identified in Housing Improvement Plan?
Existing Units 1 and 2	Pullet rearing for laying at other installation	BAT	BAT	No

Housing Improvement Plan

Area needing improvement	What needs to be done – possible solutions	Proposed cost	Proposed timescale for completion	Timescale agreed with the Environment Agency
Building design changes				
Existing Units 1 and 2	Not applicable	Not applicable	Not applicable	Not applicable
Building management changes				
Existing Units 1 and 2	Not applicable	Not applicable	Not applicable	Not applicable

No improvement is required from the proposed building management as the existing houses and equipment meet BAT.

Design of Housing

Requirement	BAT demonstrated
Does the housing design conform to a BAT standard as set out in How to Comply?	<p>Design meets requirements as described in the Best Available Techniques (BAT) Reference Document for the Intensive Rearing of Poultry or Pigs, and EPR 6.09 Sector Guidance Note “How to comply - Undertaking a housing review”, namely:</p> <p>Housing</p> <ul style="list-style-type: none"> Wooden frame buildings with panel walls

	<ul style="list-style-type: none"> • Housing has a concrete floor with a damp proof course to contain washwaters and prevent ingress of groundwater. • Houses are insulated: <ul style="list-style-type: none"> • Roof insulation shall have a U-Value of less than 0.3 W/m²/°C; and • The walls and doors insulation shall have a U-Value of less than 0.4 W/m²/°C. • Insulation will eliminate condensation on the inner linings and minimise heat loss and solar gain • Mechanical fan ventilated houses with a fully littered floor and equipped with non-leaking drinking system. • Lighting - all units contain internal lighting designed to encourage even distribution of hens and follow a 24 hour rhythm aligned with periods of darkness lasting at least 6 hours. Lighting is provided by energy efficient (LED) lighting. <p><u>Ventilation</u></p> <ul style="list-style-type: none"> • The houses are heated via LPG-fuelled systems which are computer controlled with the ventilation system. This heating system will help to dry the litter further. • Computer controlled reverse ventilation it is installed to match the health and welfare needs for the age and number of birds. Air inlets will be via controlled vents on the ceiling which draw air over the litter and chickens to dry the litter, and exhaust air through the side fans. There are six fans on each side of the buildings with a cowling to prevent water ingress. • Vents are in side walls which should prevent dust settling on clean roof and surface water run-off. All the fans will be low noise relative to typical rural background noise. <p><u>Equipment</u></p> <ul style="list-style-type: none"> • All equipment is new. Purpose built feed silos and feeding equipment with nipple drinkers and drink cups to reduce wetting of the litter.
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Management of Housing

Requirement	BAT demonstrated
1. Is slurry, litter and manure managed to the standards in How to Comply?	<ul style="list-style-type: none"> • Litter is inspected to ensure it is kept loose and friable. Inspections highlight areas where it could be excessively wet or dry. Top-up quantities of litter are stored on site to patch locations. • Nipple drinkers minimise water spillage. • Purpose designed poultry house with impermeable concrete flooring and walls with damp-proof course to prevent ingress of seepage. Ventilation system prevents influx of rain. • Concrete floor is inspected after each washing and disinfection cycle to highlight any areas of deterioration and repair as appropriate.
2. Is ventilation managed to the	<ul style="list-style-type: none"> • Ventilation rates and house conditions are monitored by computer controlled ventilation system and at least twice-daily inspections by

standards in How to Comply?	<p>workers. This ensures ventilation rates are suitable for the prevailing weather conditions and that draughts can be minimised.</p> <ul style="list-style-type: none"> • Air inlets will be via controlled ceiling inlets which draw air over the litter and chickens to dry the litter and provide suitable fresh air for welfare purposes. • Dust-free white softwood shavings will be used to reduce dust within the poultry houses.
3. Is temperature managed to the standards in How to Comply?	<ul style="list-style-type: none"> • Poultry houses are insulated to achieve suitable temperatures and reduce the requirement for heating. • Temperature is computer controlled to meet health and welfare needs for the age and number of birds. • LPG fuelled heating is provided, controlled by computer to match ventilation rates, reduce draughts and to ensure the litter is kept appropriately dry.
4. Does the general management conform to the standards in How to Comply?	<ul style="list-style-type: none"> • Floors and walls are constructed so that they can be easily cleaned and sanitised. • Following litter removal and washing, the walls and floors will be inspected to ensure cracks and damaged areas are identified and repaired.