DUNNIMERE FARM BAT RESPONSES

BAT 25. BAT is to monitor ammonia emissions to air using one of the following techniques with at least the frequency given below.

	Technique (¹)	Frequency	Applicability
a	Estimation by using a mass balance based on the excretion and the total (or total ammoniacal) nitrogen present at each manure management stage.	Once every year for each animal category.	Generally applicable.
Ь	Calculation by measuring the ammonia concentration and the ventilation rate using ISO, national or international standard methods or other methods ensuring data of an equivalent scientific quality.	Every time there are significant changes to at least one of the following parameters: (a) the type of livestock reared at the farm; (b) the housing system.	Only applicable to emissions from each animal house. Not applicable to plants with an air cleaning system installed. In this case, BAT 28 applies. Due to the cost of measurements, this technique may not be generally applicable.
с	Estimation by using emission factors.	Once every year for each animal category.	Generally applicable.

The unit at Dunnimere Farm will utilise the Estimation by using emission factors in addressing BAT 25.

BAT 3. In order to reduce total nitrogen excreted and consequently ammonia emissions while meeting the nutritional needs of the animals, BAT is to use a diet formulation and nutritional strategy which includes one or a combination of the techniques given below.

	Technique (¹)	Applicability
a	Reduce the crude protein content by using an N-balanced diet based on the energy needs and digestible amino acids.	Generally applicable.
Ь	Multiphase feeding with a diet formulation adapted to the specific requirements of the production period.	Generally applicable.
c	Addition of controlled amounts of essential amino acids to a low crude protein diet.	Applicability may be restricted when low-protein feedstuffs are not econom- ically available. Synthetic amino acids are not applicable to organic livestock production.

L 43/238	I	N Official Journal of the European Union	21.2.2017	
		Technique (¹) Applicability		
	d	Use of authorised feed additives which reduce the total nitrogen excreted.	Generally applicable.	
	(1) A description of the techniques is given in Section 4.10.1. Information on the effectiveness of the techniques for ammonia emission reduction can be taken from recognised European or international guidance e.g. UNECE guidance document on 'Options for ammonia mitigation'.			

The unit at Dunnimere Farm will utilise the Multiphase feeding with a diet formulation adapted to the specific requirements of the production period in addressing BAT 3.

BAT 4. In order to reduce the total phosphorus excreted, while meeting the nutritional needs of the animals, BAT is to use a diet formulation and a nutritional strategy which includes one or a combination of the techniques given below.

	Technique (¹)	Applicability
a	Multiphase feeding with a diet formulation adapted to the specific requirements of the production period.	Generally applicable.
Ь	Use of authorised feed additives which reduce the total phosphorus excreted (e.g. phytase).	Phytase may not be applicable in case of organic li- vestock production.
с	Use of highly digestible inorganic phosphates for the partial replacement of conventional sources of phosphorus in the feed.	Generally applicable within the constraints asso- ciated with the availability of highly digestible inor- ganic phosphates.

The unit at Dunnimere Farm will utilise the Multiphase feeding with a diet formulation adapted to the specific requirements of the production period in addressing BAT 4.

BAT 27. BAT is to monitor dust emissions from each animal house using one of the following techniques with at least the frequency given below.

	Technique (¹)	Frequency	Applicability
a	Calculation by measuring the dust concentration and the ventilation rate using EN standard methods or other methods (ISO, national or international) ensuring data of an equivalent scientific quality.	Once every year.	Only applicable to dust emissions from each animal house. Not applicable to plants with an air cleaning system installed. In this case, BAT 28 applies. Due to the cost of measurements, this technique may not be generally applicable.
ь	Estimation by using emission factors.	Once every year.	Due to the cost of establishing emissions factors, this technique may not be generally applicable.

⁽¹⁾ A description of the techniques is given in Sections 4.9.1 and 4.9.2.

The unit at Dunnimere Farm will utilise the Estimation by Using Emission Factors in relation to BAT 27.

It is confirmed that the unit at Dunnimere Farm will be in compliance with;

N excretion – 0.6 kg N excreted/animal place/year

P excretion – 0.25 kg P205 excreted/animal place/year

The Poultry Units at Dunnimere Farm will comply with all BAT conclusions relevant to Poultry Farms