

Application information requirements for assessing air emissions from biomass boilers at EPR intensive farms

Required information

Please supply the following information:

Number of biomass boilers	3
Stack height (from ground level)	C - 9.6m
Thermal input in MW or kW of each boiler	C - 1115Kw, A – 234kw B – 234kw.
The exact grid reference(s) of the stack(s)	C - 340448,433932 A – 340317,434039 B – 340309,434001
The exact grid reference of the centre of the farm	340444,433919
A plan giving layout of the farm including dimensions.	
Fuel type (virgin wood, straw or miscanthus)	C - Woodchip/Grade A A&B – Virgin woodchip
Approximate fuel storage tonnage	50T
Details of accident prevention measures - please provide risk assessment document	
Details of what happens to the ash, e.g. exported from site as waste or added to the manure for spreading on land.	Added to manure for land spreading
Confirmation that the boiler and its installation meet the technical criteria to be eligible for the Renewable Heat Incentive (the boiler manufacturer should have proof of certification) please provide certificate (<i>scheme not open to new applications but boiler should still meet the criteria</i>)	Emission certificate
Additional information required only if the boilers do not screen out as detailed in the guidance at https://www.gov.uk/guidance/intensive-farming-risk-assessment-for-your-environmental-permit#air-emissions-biomass-boilers	
Adjacent Building heights	7.5m
Flue diameter	300mm ID at exit
Flue gas exit minimum temperature	180
Exit velocity in m/sec	14.1
NO _x concentration in mg/Nm ³	<500
CO concentration in mg/Nm ³	<220
PM ₁₀ (dust) concentration in mg/Nm ³	<50
O ₂ concentration %	6%

(Please note the 'N' in Nm³ means 'normal' which means the gas volume, which depends on temperature and pressure, is measured at 101.325 kPa and 0 °C)