

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	1 x Justsen Flex 19S
Stack height (from ground level)	Approx. 10.5m from GL, subject to detailed design
Thermal input in MW or kW of each boiler	1.79 MW
The exact grid reference(s) of the stack(s)	53.1096591, -0.5863396
The exact grid reference of the centre of the farm	53.1102824, -0.5879124
A plan giving layout of the farm including dimensions.	
Fuel type (virgin wood, straw or miscanthus)	Cereal straw
Approximate fuel storage tonnage	2300 Tonnes
Details of accident prevention measures - please provide risk assessment document	
Confirmation that the ash will be disposed of as a waste, or spread under an exemption	The ash is to be sold off site and spread on land.
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	Technical Criteria to meet MCPD. On site testing post commissioning.
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	
Flue diameter	400mm ID, 450mm OD + Final termination reducing cone
Flue gas exit minimum temperature	130 Deg C
Exit velocity in m/sec	12.5m/S
NO_x concentration in mg/Nm³	Less than 500 to meet MCPD
CO concentration in mg/Nm³	Less than 200
PM₁₀ (dust) concentration in mg/Nm³	Less than 50, to meet MCPD
O₂ 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)