Management Plan for Biomass External Plant Room – Corsham School

Site Location – Corsham School, The Tynings, Corsham, SN139DF

This document has been produced by Reenergise Group who are the project managers for the delivery of the biomass plant room. It outlines the correct operating procedures that staff at Corsham School will be trained in and use with the ETA 463KW boilers alongside the digital interfaces provided by ETA for automated management.

Operation of Plant Room

The external plant room will require a low level of maintenance. Most of its operation is controlled digitally and its function will be automated. The following management will be needed from the site team:

- Weekly checks of the ash bins to check for buildup and to empty them when required.
- Daily monitoring of heat demand of the school and temperature of boilers.
- Regular monitoring of woodchip store to check levels due to varying consumption.
- Ordering wood chip deliveries in line with consumption through the selected wood chip supplier.
- Ensuring correct annual servicing takes place and the plant room receives correct maintenance.

Mitigation

1	Over-filling	Loading of the boiler is undertaken Automatically and is computer controlled. The wood chip store has spare capacity for winter months and is fed by a moving floor auger system. There will be deliveries in frequency between monthly and fortnightly to keep wood chip levels high enough with the schools consumption
2	Furnace temperature	The temperature is set using digital control panels and can also be adjusted remotely. It will be maintained between 75 and 85 Degrees.

3	Ventilation	The boilers will be ventilated using a steel chimney attached to each boiler. An automatic ash removal system is in place which will deposit the particulates from the furnace into ash bins. These ash bins can be cleaned weekly to prevent build up.
4	Fuel	A separate tender process for a local supplier of woodchip will take place. This will be sourced and delivered by a contracted company in line with professional standards. All woodchip will meet the minimum requirements for moisture content. Deliveries will vary in frequency by the season with monthly deliveries in summer up to fortnightly deliveries in winter.
7	Boiler Waste	All boiler waste is to be removed from site by a licensed waste contractor and a record kept of when this is removed and by whom.
8	Operational Requirement	The boilers will be controlled either by a remote app or manually through digital control panels. The heat demand will vary dependent on season and level of operation in the school. The output of the boilers will be adjusted daily based on this demand.
9	Servicing	A Service contract will accompany the delivery of the biomass plant room. A full service is to be undertaken by qualified engineers on an annual basis and a record kept. Any maintenance will be rectified at this point if it hasn't been previously identified.
10	Local Authority	All logs/paperwork to be kept and made available to the Local Authority on request. LA to be informed without delay should any problems arise.

11	Break Down	In the event of a breakdown of any key plant associated with the process (e.g. fans, pumps etc), burning operations will cease until a full repair can be effected.