



Operator	Engineered Timber Solutions Limited
Installation address	ETS Trusses Unit 2 Rodenhurst Business Park Rodington Shrewsbury SY4 4QU
Permit reference	4401/230824
Grid reference	SJ 587155
Registered office	Engineered Timber Solutions Ltd Littles Lane Wolverhampton WV1 1JY
Registered number	04855981

Engineered Timber Solutions Ltd (“The Operator”) is hereby permitted by Telford & Wrekin Council (“The Council”) to carry out the activity of; the incineration in a small waste incineration plant with an aggregate capacity of 50kg or more per hour, of wood waste with the exception of wood waste, which may contain halogenated organic compounds or heavy metals as a result of treatment with wood preservatives or coatings, as defined under Schedule 1, Part 2, Section 5.1 Part B (a)(v) of The Environmental Permitting (England and Wales) Regulations 2016 (“The Regulations”), within the installation boundary marked in green on the attached plan in Appendix 1, and in accordance with the conditions within this permit.

Signed: 

Name: Clair Travis
Environmental Health Officer

Date: 23 August 2024

Authorised by the Borough of Telford and Wrekin to sign in that behalf

Introductory Note

Permit status log

Description	Relevant Dates
Date Permit First Issued	23/08/2024

Legislation and guidance related to this permit

Pollution Prevention and Control Act 1999

Environmental Permitting (England and Wales) Regulations 2016

Environmental permitting technical guidance note PG5/1(21) (draft)

Determination of application

Conditions have been inserted as representing the authority's judgement of what constitutes BAT, having regard to the statutory guidance issued by the Secretary of State and to all site-specific considerations.

Description of the Installation

This permit covers the incineration of Grade A clean waste wood. The site supplies engineered roof and floor products and as part of the production process, waste wood and sawdust are generated. Waste sawdust and small wood pieces, fed directly from the onsite saw extraction system feeds into the silo. Larger pieces are placed within the chipper, which then feeds to the silo once the wood is shredded to a suitable size.

The waste wood fuel from on-site production is the only fuel used on site.

Wood fuel is fed directly into the Talbott MWE 300kWth waste incinerator (known commonly as a biomass boiler), from the silo, via the screw feed auger. The incinerator has a maximum throughput of 75kg/hr.

Fuel is supplied from the storage silo automatically and is controlled by the Programmable Logic Control system, (PLC). The rate of the fuel feed is governed by pre-set cycle times, programmed into the PLC control system. Gases produced in the primary chamber, pass through the second combustion chamber to burn off volatiles. The chamber has been built to accommodate a 2 second residency time. Air speeds are controlled by the PLC and the secondary and tertiary air speeds are controlled by the flue gas oxygen monitoring lambda probe.

The system has a flue gas recirculation system, which assists in maintaining the combustion temperature, as well as increasing boiler efficiency, while reducing NO_x and CO. Gases then pass through the cyclone, which captures particulate matter. The waste gases then pass through the stack to the atmosphere.

The heat produced by the incinerator is then used to heat the factory as a space heater.

The waste to be incinerated has a waste classification of EWC 03 01 05 with a description of; sawdust, shavings, cuttings, wood, particle board and veneer that is fixed to the board, other than those mentioned in 03 01 04 and has no chemical treatments applied.

Fly ash and bottom ash is collected and disposed of by regulated waste carriers.

There is a timber activity on site as described in Schedule 1 Section 6.6, Part B(a)(i). The annual throughput at the time of application is below the 10,000m³ and therefore a permit will not be required at this time. A condition has been placed within the permit to monitor annual throughput.

The minimum stack height is 11.8 metres with a diameter of 0.15 metres. The minimum efflux velocity is 17.9m/s.

A site layout plan has been placed in appendix 2 of the permit.

Not covered by the permit

The storage and treatment of wood waste and waste plant matter by chipping shredding, cutting or pulverising is controlled under the T6 waste exemption registered with the Environment Agency – Registration number WEX 373456. This must be registered every three years and is the operator's responsibility to ensure that the registration is in date.

End of Introductory Note

Permit Conditions

General

1. The best available techniques shall be used to prevent, or where that is not practicable, reduce the emissions from the installation in relation to any aspect of the activity which is not specifically regulated by any condition of this permit.
2. An appropriate person (and deputy) shall be appointed as the primary point of contact with the regulator. The regulator shall be informed in writing of the appointed person (and deputy). In the event of a different person being appointed, the regulator shall be informed without delay.
3. A copy of this permit shall be kept at the installation. All relevant staff shall be made aware of its content and shall be told where it is kept.
4. If the operator proposes to make a change in the operation of the installation, they must, at least 14 days before making the change, notify the regulator on the appropriate form. The notification must contain a description of the proposed change in operation. A 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.
5. The operator must keep written records of:
 - a. all inspections, both by external bodies and internal employees,
 - b. maintenance, including cleaning, maintenance undertaken by external contractors or internal personnel and breakdowns,
 - c. operating procedures with subsequent training records,
 - d. emission testing, periodic and operator assessments as well as details of any testing platforms.
6. All records required to demonstrate compliance with any conditions of this Permit shall be kept in an organised manner. The records shall be kept electronically or in paper form. Records:
 - a. Must be legible and any amendment entered into a record shall be made in such a way as to leave the original clear and legible.
 - b. Records shall be kept for a period of 6 years, unless otherwise stated.
 - c. Records shall be kept on-site for a minimum of 12 months. Records kept off-site, must be made available within 7 days of any request by the regulator.



7. All documentation required to be submitted to the regulator to demonstrate compliance with relevant conditions, shall be submitted in an electronic format. Submissions shall be sent to:
environmentalprotectionteam@telford.gov.uk

Permitted activity

8. The operator is permitted to operate an installation for the regulated activity listed within Table 1 below.

Table 1 - Regulated activities		
Activities listed in Environmental Permitting Regulations 2016	Description of specified activity	Limits of specified activity
Schedule 1, Part 2, Section 5.1 Part B (a)(v)	the incineration in a small waste incineration plant with an aggregate capacity of 50kg or more per hour, of wood waste with the exception of wood waste, which may contain halogenated organic compounds or heavy metals as a result of treatment with wood preservatives or coatings.	From the incineration of waste wood and the abatement of emissions from the incinerator to the immediate storage of fly ash and bottom ash.
Directly associated activities		
Description	Limits to the activity	
The storage of bottom and fly ash	From the containment of ash from the cyclone and incinerator to the storage of ash before transfer off-site to a waste facility	

9. Permitted activities shall only be carried out using the plant detailed in the process description of this permit.



Management and operational controls

- 10.** The installation shall be managed, operated and maintained in accordance with the Environmental Management System (EMS). The EMS shall, as a minimum, include the following:
 - a. Manufacturer's instructions,
 - b. Plant operation procedures,
 - c. maintenance procedures and schedule,
 - d. emissions monitoring,
 - e. plant failures,
 - f. Incident and abnormal emissions procedures,
 - g. Bottom and fly ash storage and disposal procedures,
 - h. Record keeping,
 - i. Staff training.

- 11.** The EMS shall be reviewed and updated:
 - a. Prior to the completion of a significant change within the installation.
 - b. Where any type of change is made to any plant and equipment listed within the process description of this permit
 - c. At least every 4 years in any other circumstance.

- 12.** The regulator shall be informed of any changes to the EMS.

- 13.** Only clean wood waste with a waste classification code of 03 01 05, which has been produced as a waste product from the site production process, shall be incinerated in the Talbott MWE 300 appliance.

- 14.** Any waste wood that has been classified as hazardous waste, or wood that is commonly known as Grade B, C & D waste wood, must not be incinerated.

- 15.** Regular analysis of waste wood to be incinerated shall be carried out by a UKAS accredited laboratory. Results of testing shall be made available for inspection by the regulator.

- 16.** The operator shall provide the regulator with the annual throughput in cubic metres, of wood used in the production process. This shall be forwarded to the regulator no later than 31 March each year.

- 17.** Staff who operate the plant must be trained in accordance with the EMS and the manufacturer's instructions. A record of the training must be available to the regulator.

- 18.** Only trained staff shall operate the plant.



Ash storage and disposal

19. Ash shall be stored and disposed of in a way that prevents the escape of dusty waste.

Emissions

20. All emissions to air from the incinerator shall be emitted to atmosphere via the cyclone abatement unit and then stack 1 identified in appendix 2.
21. Emissions to air shall be free of odour beyond the installation boundary detailed in appendix 1, as perceived by the Regulator.
22. The Operator shall monitor emissions from stack 1 daily, and in accordance with British Standard BS 2742:2009. The plant must be in normal operation at the time of monitoring. Records shall be kept for inspection by the regulator.
23. The emissions from stack 1 shall not exceed the equivalent of Ringelmann Shade 1 as defined in British Standard BS 2742:2009 during normal operations.
24. The number of start-up and shutdowns shall be minimised.
25. Emissions from the regulated activity must not cause or contribute to:
 - a. EU air quality limit values being exceeded,
 - b. the values within the objectives of the Air Quality Strategy for England, Scotland, Wales and Northern Ireland for sulphur dioxide, oxides of nitrogen and particulate matter (PM10 and PM2.5) being exceeded.

Abnormal events and notifications

26. The operator must restore compliance in the shortest possible time, in the event of any:
 - a. Non-compliance with any emission limit in condition 23,
 - b. malfunctions and breakdown of the plant that leads to abnormal operating conditions,
 - c. complaints about odour or smoke,
27. To restore compliance, the operator must:
 - a. Notify the regulator within 24 hours of receiving the information and to agree the investigation procedure of the issue,
 - b. undertake the agreed investigation,
 - c. adjust the process or activity to minimise those emissions,



- d. promptly record the events and actions taken,
- e. submit to the regulator the report and updates as agreed.

28. If there are any proposed changes to the plant that could affect the emissions, the operator must inform the regulator, as soon as they are aware of the changes.

Cleaning

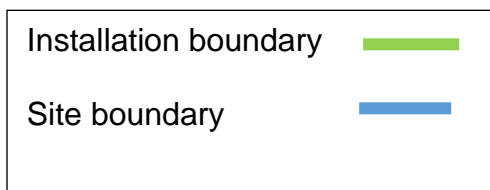
29. Clean flues and ductwork regularly to ensure that a build-up of material does not affect emissions and their dispersion.

Improvement plan

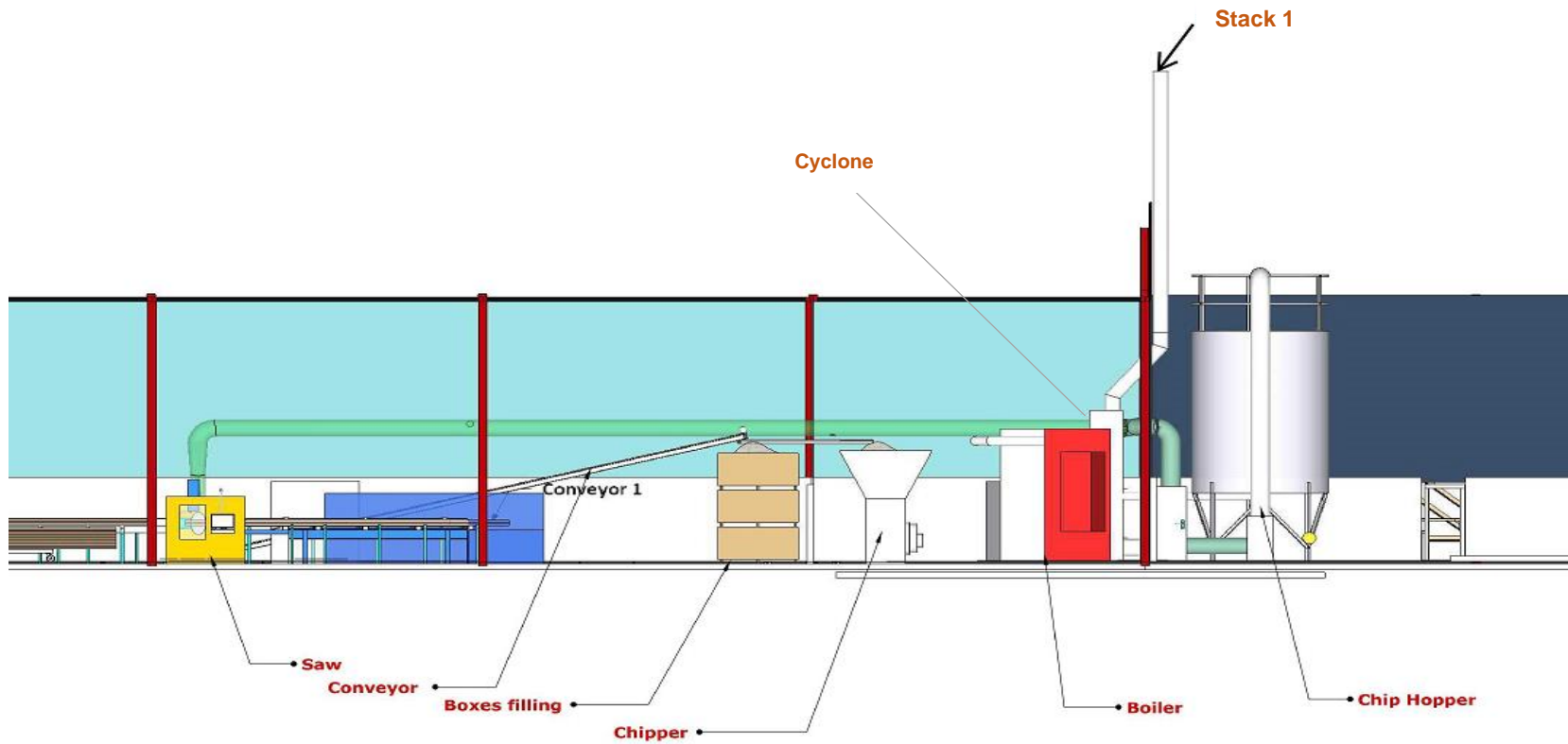
30. The environmental management system shall include the full British Standard 2742:2009 and the authorised smoke charts. This shall be completed no later than 1 month from the date of issue of the permit.

31. Relevant staff shall receive training to carry out the monitoring required in condition 21 and 22. This shall be completed no later than 1 month from the date of issue of the permit.

Appendix 1. Location of Installation Plan



Appendix 2.- site layout



Interpretations

Abnormal operation

means any technically unavoidable stoppages, disturbances, or failures of the abatement plant or the measurement devices, during which the concentrations in the discharges into air may exceed the emission limits for smoke and odour, as detailed in the conditions of the permit.

Annual

Means the period of 1 January to 31 December of each year.

Regulator

Means Telford and Wrekin Council. An inspector for the regulator is any person authorised by Telford and Wrekin Council under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

Normal operation

Means the process of incinerating wood waste, except for start-up and shut down.

Shut down

Means any period where the plant is being returned to a non-operational state.

Start-up

Means any period, where the plant has been non-operational, after igniting the auxiliary burner, until waste has been fed to the plant to initiate normal operational conditions.

Waste code

Means the six-digit code referable to a type of waste in accordance with Commission 'Decision 2000/532/EC List of Wastes and Hazardous Wastes' or 'Technical Guidance WM3 – Guidance on the classification and assessment of waste' as appropriate. In relation to hazardous waste, includes the asterisk.

End of permit conditions

Guidance

This section does not form part of the permit but contains guidance relevant to it.

Inspections

Regular inspections will be made by officers of Telford & Wrekin Council (with or without prior notice), in order to check and ensure full compliance with this permit. Inspection will be carried out in accordance with a risk assessment, and/or following from any complaints or applications.

Health and Safety at Work and Other Statutory Requirements

Compliance with this permit does not necessarily infer compliance with any other legislation.

Appeal against Regulatory Action

The operator can appeal against regulatory action by the regulator to the Secretary of State for Environment, Food & Rural Affairs. Appeals must be made in accordance with Regulation 31 and sent to the Secretary of State. The appeal procedure can be found at:

[Environmental permit - Guidance on the Appeal procedure - GOV.UK](http://www.gov.uk/government/uploads/system/uploads/attachment_data/file/342222/Environmental_permit_-_Guidance_on_the_Appeal_procedure_-_GOV.UK.pdf)
(www.gov.uk)

Please note:

An appeal will not suspend the effect of the conditions appealed against; the conditions must still be complied with.

Contact details for the Regulator

The Regulator is the Public Protection Team of Telford & Wrekin Council. They can be contacted on 01952 381 818. You may also contact them by email at any time. environmentalprotectionteam@telford.gov.uk

Correspondence Address

All correspondence to Telford & Wrekin Council relating to this information shall be addressed to: Public Protection, Telford and Wrekin Council, Darby House, Lawn Central, Telford, TF3 4JA.

End of Permit