



**Barrow-in-Furness Borough Council**

**POLLUTION PREVENTION AND CONTROL ACT 1999**  
**ENVIRONMENTAL PERMITTING (ENGLAND AND WALES)**  
**REGULATIONS 2016, SI1154**

**Part B Permit with Introductory Note**

**Ref: PPC/B/35**

**JJC Hire Ltd. Biomass Plant**  
**Sandscale Park**

**Installation Address:**  
JJC Hire Ltd  
Sandscale Park  
Park Road  
Barrow in Furness  
Cumbria  
LA14 4QT

**Application First Received:** 12<sup>th</sup> February 2019  
**Current Part B Permit Issued:** 11<sup>th</sup> January 2022

## EXPLANATORY NOTES

### *These notes do not form part of the Permit*

This Permit is issued under Regulation 13 of the Environmental Permitting (England & Wales) Regulations 2016 (2016 Regulations) to operate an installation carrying out one or more of the activities listed in Part 2, Section 5.1(v) to Schedule 1 of those Regulations, to the extent authorised by the Permit.

The Permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions, are subject to the Operator using the best available techniques (BAT) for preventing or, where that is not practical, reducing emissions from the installation.

Article 2(11) of the IPPC Directive defines — “best available techniques” as follows:

- a) ‘Best available techniques’ shall mean the most effective and advanced stage in the development of activities and their methods of operation which indicate the practical suitability of particular techniques for providing in principle the basis for emission limit values designed to prevent and, where that is not practicable, generally to reduce emissions and the impact on the environment as a whole.
- b) ‘techniques’ shall include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned,
- c) ‘available’ techniques shall mean those developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the costs and advantages, whether or not the techniques are used or produced inside the Member State in question, as long as they are reasonably accessible to the operator,
- d) ‘best’ shall mean most effective in achieving a high general level of protection of the environment as a whole.

In determining the best available techniques, special consideration should be given to the items listed in Annex IV.

### **Brief Description of the Installation Regulated by the Permit**

The installation boundary and location of the boiler house and stack are shown in Appendices 1-3 at the rear of this permit.

The combustion of Grade A waste wood in three biomass boilers; a Heizomat RHK-AK 1000 boiler and two Heizomat RHK-AK 900 boilers, each having a thermal output of 900KW.

The permit strictly prohibits the use of any other grades of waste wood in the boilers apart from Grade A (clean, uncontaminated).

The process will be regulated under Part 2, Chapter 5, Section 5.1 Part B(a)(v) of the Environmental Permitting (England and Wales) Regulations 2016 (“the regulations”), which is defined as follows:

*“(a) The incineration in a small waste incineration plant with an aggregate capacity of 50 kilogrammes or more per hour of the following waste –*

*(v) 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”*

Storage of processed wood used in the operations covered by this Part B permit will be treated as a Directly Associated Activity (DAA), regulated by this permit and Local Authority. As such, the biomass fuel storage area has been included within the permit boundary (Appendix. A).

The waste wood processing operations are subject to separate regulation under existing waste permits, and/or exemption(s) held by the site operator Environmental Permit, further information may be provided under the Environment Agency Permit Ref: EPR/FB3609XF.

Each boiler is fitted with turbulators with cyclonic flow to control emissions of particulate matter. The appliances operate with wood being transferred via a continuous loaded fuel feed system from the biomass fuel store. The boilers are continuously loaded at a rate of up to 285kg/hour, and fitted with a cyclone for emission reduction. No other emission abatement technology is required for this equipment.

The boilers also have a Renewable Heat Incentive (RHI) certificate. In order to qualify for RHI, the boiler is required to meet maximum emissions levels of 30g.GJ-1 for particulate matter and 150g.GJ-1 for NOx.

**1) Responsibility under Workplace Health and Safety Legislation** - This permit is given in relation to the requirements of Environmental Permitting Regulations 2016 and subordinate regulations. It must not be taken to replace any responsibilities you may have under workplace health and safety legislation.

**2) Other responsibilities** - This permit, in that it regulates only air pollution matters, does not absolve you of the responsibility of any other statutory requirement, such as any need to obtain planning permission, hazardous substances consent or Building Regulations approval from the Council.

**3) Enforcement and Offences** - It is an offence to operate a regulated facility without a current permit. The operator will be liable to enforcement action where;

- a) a new activity (as defined within the Environmental Permitting (England & Wales) Regulations 2016) is carried on without a proper permit, and
- b) any of the conditions of the permit are breached.

**4) Subsistence Charge** - An annual fee (subsistence charge) due on 1st April each year (currently chargeable per activity per annum but subject to change by statutory instrument) is payable to Barrow-in-Furness Borough Council.

5) **Confidentiality** - The Permit requires the Operator to provide information to Barrow-in-Furness Borough Council. The Council will place the information onto the public registers in accordance with the requirements of the 2016 Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Council to have such information withheld from the register as provided in the 2016 Regulations. To enable Barrow Borough Council to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

6) **Variations to the permit** - This Permit may be varied in the future. If at any time the activity, or any aspect of the activity regulated by the following conditions changes such that the conditions no longer reflect the activity and require alteration, the Regulator should be contacted.

7) **Surrender of the permit** - Where an Operator intends to cease the operation of an installation (in whole or in part) the regulator should be informed in writing, such notification must include the information specified in Regulation 24 of the 2016 Regulations.

8) **Transfer of the permit or part of the permit** - Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 21 of the 2016 Regulations. A transfer will be allowed unless the Authority considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

9) **Appeal against permit conditions** - Anyone who is aggrieved by the conditions attached to a Permit can appeal to the Secretary of State for the Environment, Food and Rural Affairs. Appeals must be made in accordance with the requirements of Regulation 31 and Schedule 6 of the 2016 Regulations.

Appeals should be sent to the Secretary of State for the Environment, Food and Rural Affairs. The address is as follows:-

The Planning Inspectorate  
Environmental Appeals Administration  
Room 3/H - Hawk Wing  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol  
BS1 6PN

Please Note - an appeal brought under Regulation 31 Paragraph (1) (b) and Schedule 6 in relation to the conditions in a permit will not suspend the effect of the conditions appealed against; the conditions must still be complied with. In determining an appeal against one or more conditions, the Act allows the Secretary of State in addition to quash any of the other conditions not subject to the appeal and to direct the regulator either to vary any of these other conditions or to add new conditions.

10) **Contact Details** - If you are required to contact the Environmental Protection Unit of Public Protection Services at Barrow-in-Furness Borough Council, please telephone 01229 876366 during office hours and ask for Geoff Dowker (Environmental Protection & Public Health Team Leader).

**End of Explanatory Note**



**Permit reference: PPC/B/35**

**Barrow-in-Furness Borough Council (the “regulator”)** in exercise of its powers under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016, hereby permits

**JJC Hire Ltd. (“the operator”)**

whose registered office is

**JJC Hire Ltd  
Sandscale Park  
Park Road  
Barrow in Furness  
Cumbria  
LA14 4QT**

**Company Registration No. 06368224**

to operate an installation undertaking the incineration in a small waste incineration plant with an aggregate capacity of 50kg or more 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 in sections 5.1 Part B, Paragraph (a)(v) of Schedule 1, Part 2 of the above Regulations, at

**JJC Hire Ltd  
Sandscale Park  
Park Road  
Barrow in Furness  
Cumbria  
LA14 4QT**

subject to the conditions of this Permit and within the boundary shown in red on the attached plan in Appendix A.

  
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Head of Public Protection  
An authorised officer of the Council

**Date: 11<sup>th</sup> January 2022**

## STANDARD CONDITIONS

### Best Available Techniques

1. The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.

### Notification Procedure

2. If the operator proposes to make a change to the operation of the installation, the operator must, at least 14 days before making the change, notify the regulator in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. In this condition 'Change of operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment, such as the potential to lead to increased VOC emissions.

## EMISSION LIMITS, MONITORING AND OTHER PROVISIONS

3. The following emission limits specified in Table 1 shall apply:

**Table 1 - Emission limits, monitoring and other provisions**

| Row | Substance                             | Source  | Emission limits/provisions                                      | Type of monitoring  | Monitoring frequency |
|-----|---------------------------------------|---|---|---|----------------------|
| 1   | Carbon monoxide                       | Other processes less than 1MW   | 250 mg/m <sup>3</sup>   | Manual extractive testing<br>Disregard:<br>• 30 minutes from cold start                         | Annual               |
| 2   | Total particulate matter              | All processes   | <b>New Plant and replacement plant:</b><br>60 mg/m <sup>3</sup> | Manufacturers' guarantee<br><b>OR</b><br>Manual extractive testing                              | Annual               |
| 3   | Oxides of Nitrogen (NO <sub>x</sub> ) | All processes   | New Plant:<br>• 400 mg/m <sup>3</sup>                           | Demonstrable upon commissioning and after any subsequent substantial change to the installation |                      |
| 4   | Oxygen                                | All processes where continuous carbon monoxide monitoring is provided | Continuous quantitative monitoring and record                   |   |                      |
| 5   | Organic compounds                     | All processes   | 20 mg/m <sup>3</sup>  | Manual extractive testing   | Annual               |

4. The reference conditions for the emission limits in condition 3 shall be 273.1K, 101.3kPa, 11% oxygen.

## RECORDING OF INFORMATION

5. Emissions from the Heizomat RHK-AK 1000 Biomass Boiler and the two Heizomat RHK-AK 900 Biomass Boilers shall be monitored annually in line with the provisions of table 1.
6. The operator shall notify the regulator a least 7 working days in advance of any periodic monitoring exercise. The operator shall state the provisional time and date of monitoring, pollutants to be tested and methods to be used. Monitoring shall be undertaken by a competent person.
7. The results of non-continuous emission testing shall be forwarded to the regulator within 8 weeks of the completion of sampling.
8. For extractive testing, no result of monitoring shall exceed the emission limit concentrations specified in table 1.
9. Adverse results from any monitoring activity shall be investigated promptly by the operator. The operator shall:
  1. Identify the cause and take corrective action.
  2. Record as much detail as possible regarding the cause and extent of the problem, and the action taken by the operator to rectify the situation.
  3. Retest to demonstrate compliance as soon as possible; and,
  4. Notify the regulator
10. The operator shall keep records of inspections, tests and monitoring, including all non-continuous monitoring, inspections and visual assessments. The records shall be:
  1. Kept on site,
  2. Kept by the operator for at least two years and,
  3. Made available for examination by the regulator upon request.

## Visible Emissions

11. Emissions under normal operations shall be free from visible smoke and shall not exceed the equivalent of Ringlemann Shade 1 as described in British Standard 2742:2009 during start up and shut down.
  1. All other releases to air, other than condensed water vapour, shall be free from persistent visible emissions.
  2. All emissions to air shall be free from droplets and offensive odour.
12. Where there are problems that, in the opinion of the regulator, may be attributable to the installation, such as local complaints of odour or where odour from the installation is being detected beyond the site boundary, the operator should investigate to find out which part of their operation is the cause.

## Abnormal Events

13. In the case of abnormal emissions, malfunction or breakdown leading to abnormal emissions the operator shall:
  1. Investigate and undertake remedial action immediately,



2. Adjust the process or activity to minimise those emissions; and
  3. Promptly record the events and actions taken.
14. The regulator shall be informed without delay, whether or not there is related monitoring showing an adverse result:
1. If there is an emission that is likely to have an effect on the local community; or
  2. In the event of failure of key arrestment plant, ie. bag filtration plant or scrubber units

On: Telephone      01229 876366  
Fax                    01229 876411  
Office Hours (Mon-Fri) 9.00am-4.00pm  
Out of Hours (Evenings, Sat & Sun) Telephone 01229 833311

15. The operator shall have a written procedure for dealing with failure of key arrestment plant.

### **Start up and Shutdown**

16. The number of start-ups and shutdowns shall be kept to the minimum that is reasonably practical and all appropriate precautions shall be taken to minimise emissions during start up and shutdown.

### **Continuous Monitoring**

17. The concentration of oxygen in the flue gas of the Heizomat RHK-AK 1000 Biomass Boiler and the two Heizomat RHK-AK 900 Biomass Boilers shall be measured continuously. In addition:
1. All continuous monitoring readings shall be on display to appropriately trained operating staff.
  2. Instruments shall be fitted with audible and visual alarms, situated appropriately to warn the operator of arrestment plant failure or malfunction.
  3. The activation of alarms shall be automatically recorded; and,
  4. All indicative continuous monitors shall be operated, maintained and referenced in accordance with manufacturers instructions, which shall be made available for inspection by the regulator.

### **Calibration and compliance Monitoring**

18. Non-continuous, extractive, emissions monitoring to determine compliance with the emission limit values in table 1, shall be carried out within 6 weeks of the date of this permit, and at least once every 12 months thereafter.
19. Sampling data required shall be obtained over a minimum period of 2 hours in total. No result of monitoring shall exceed the emission limit concentrations specified.
20. The introduction of dilution air to achieve emission concentration limits is not permitted.
21. Within 6 months of the date of this permit, the regulator will carry out an installation 'spot check' on the types of Grade A wood being used as fuel to determine operator compliance

with the conditions herein. The operator will make provision to allow officer access to the installation when required when carrying out this inspection.

### **Varying of Monitoring Frequency**

22. The frequency of monitoring may be varied with written permission of the regulator where there is consistent compliance with emission limits. Consistent compliance should be demonstrated using the results from at least;
1. three or more monitoring exercise's within two years; or
  2. two or more monitoring exercises in one year supported by continuous monitoring.

### **Sampling Provisions**

23. Sampling points shall be designed to comply with the appropriate British or equivalent standards e.g. BS EN 13284-1 or BS ISO 12141:2002 for sampling particulate matter in stacks.
24. The operator shall ensure that adequate facilities for sampling are provided on stacks and ducts, in order to facilitate access to the stacks or ducts.

### **Control Techniques**

25. Combustion chambers, casings, ductwork and ancillary equipment shall be made and maintained as gas tight as is practical.
26. Boiler idling is not permitted. The operator shall justify to the regulator if this is not technically feasible.
27. The shredded Grade A waste wood shall have a moisture of less than 30% prior to being used to fuel the boilers.
28. Automatic fuel feed systems shall be used at all times.
29. All waste fuels and all processed dusty or potentially dusty materials shall be stored in covered containers, purpose built silos or undercover.
30. All spillages shall be cleaned up promptly by vacuum cleaning, wet methods, or other appropriate techniques. Dry sweeping of dusty spillages is prohibited. Wet material from spillages shall be dried before being burnt.
31. All ductwork and piping used to deliver fuel to the storage system and combustion plant shall be leak-proof to prevent the emission of particular matter.
32. A high standard of housekeeping shall be maintained at all times.
33. Silos and supply hoppers shall be fitted with high level alarms or volume indicators to warn of overfilling. The delivery system shall be provided with an interlock to prevent the silo or supply hopper being overfilled. The interlock mechanism should cause material to be

discharged to an alternative storage container, where necessary vented to suitable arrestment plant.

## **Air Quality**

34. The chimney stacks serving each combustion boiler shall discharge at a minimum of 9 metres above ground level.
35. Flues and ductwork shall be cleaned to prevent accumulation of materials, as part of the routine maintenance programme.

## **Management**

36. Spares and consumable- in particular those subject to continual wear – shall be held on site, or shall be available at short notice from guaranteed suppliers, so the plant breakdowns can be rectified rapidly.
37. All staff, including contractors, whose function could impact upon air emissions shall receive appropriate training on those functions, including;
  1. Awareness of responsibilities under this permit,
  2. Steps that are necessary to minimise emissions during start-up and shutdown,
  3. Actions to take when there are abnormal conditions, or accidents or spillages that could, if not controlled result in emissions, and
  4. Inspection of incoming fuel for signs of contamination by wood chip that contains significant amounts of coatings, laminates, or other surface treatments, as well as obvious signs of the presence of PVC and other chlorinated organic polymeric compounds.
38. The operator shall maintain a statement of training requirements for each operational post and keep a record of training received by each person whose actions may have an impact on the environment. These documents shall be made available to the regulator upon request.

## **Maintenance**

39. The operator shall have the following available for inspection by the regulator:
    1. a written maintenance programme for all pollution control equipment; and
    2. a record or maintenance that has been undertaken.
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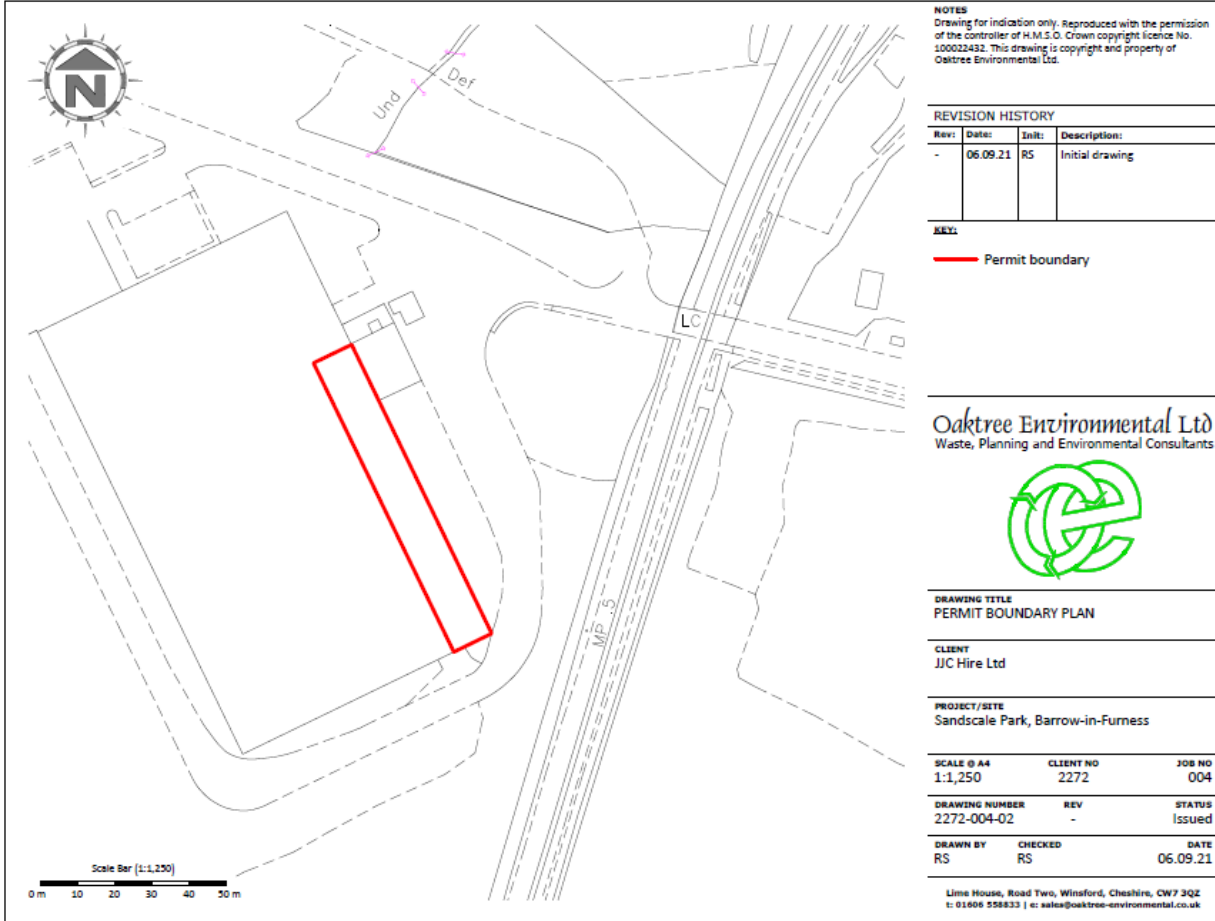
**In this permit, the following expressions shall have the following meaning:**

|                    |   |
|--------------------|---|
| Authorised officer | An officer authorised to carry out duties under the 2016 Regulations and subordinate regulations.   |
| Installation       | Any reference to an installation shall be taken to include “mobile plant”, stockpiles and associated roadways unless otherwise stated.  |
| Logbook            | Includes any means of storage of the required information as agreed by the regulator.   |
| Operator           | The person who has control over the operation of the installation. The installation need not be in operation for there to be an operator. The operator must demonstrably have the authority and ability to ensure compliance with the permit. |
| Regulator          | Barrow-in-Furness Borough Council. The Environmental Protection Section of Public Protection Services, Town Hall, Duke Street, Barrow-in-Furness, Cumbria, LA14 2LD of this Council has responsibility for pollution control regulation.      |

**END OF PERMIT**

# Appendix A - Installation Site Boundary

PPC/B/35 - JJC Hire Ltd.



### Appendix B - Site Layout

