

# Surrender notice and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Ferrybridge MFE 2 Limited

Ferrybridge Multifuel 2 Stranglands Lane Knottingley West Yorkshire WF11 8SQ

#### Surrender application number

EPR/XP3833DK/S002

#### **Permit number**

EPR/XP3833DK

# Ferrybridge Multifuel 2 Permit number EPR/XP3833DK

# Introductory note

# This introductory note does not form a part of the notice.

The following notice gives notice of the surrender in part of an environmental permit.

The part surrender application is to reduce the permitted boundary of the site and also to allow the development of an Incinerator Bottom Ash (IBA) handling plant, which would be owned and operated by a different operator under a separate environmental permit. No permitted activities have been undertaken on this area of land as the site is still under construction.

As a consequence of the part surrender an admin variation has also been undertaken to:

- · Increase the south-eastern boundary
- Relocate the attenuation pond
- Remove the discharge points to sewer (emission point S1 & S2)
- Relocate emission points A3 & W1.

This notice also updates the companies registered office address and renames emission point A1 as A1+A2 for clarity purposes.

Any changes made as a result of the part surrender are set out in the schedules.

There are no other changes to the installation or operations as a result of the part surrender and admin variation. The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/YP3332WV/A001	Duly made 14/01/15	Application for 90MW electrical output WDF Power Station.
Additional information received	15/05/15	Further detailed assessment in support of submitted Human Health Risk Assessment.  Additional information and clarification of submitted Noise Impact Assessment.
Additional information received	31/07/15	Further assessment of potential impact upon sensitive habitat receptors.
Permit determined EPR/YP3332WV	25/11/15	Permit issued to Multifuel Energy Limited.
Application EPR/XP3833DK/S002 (full transfer of permit EPR/YP3332WV)	Duly made 15/03/16	Application to transfer the permit in full to Ferrybridge MFE 2 Limited.
Transfer determined EPR/XP3833DK	25/04/16	Full transfer of permit complete.
Part surrender application (including admin variation) EPR/XP3833DK/S002	Duly made 01/08/18	Application to surrender an area of land within the permitted area & consequential admin variations.

Status log of the permit		
Description	Date	Comments
Part surrender (including admin variation) determined	31/08/18	Part surrender, admin variation and consolidation complete.
EPR/XP3833DK		
(Billing Reference DP3130QU)		

End of introductory note

#### Notice of surrender

# The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 25 of the Environmental Permitting (England and Wales) Regulations 2016 accepts the surrender in part of

#### Permit number

EPR/XP3833DK

#### Issued to

Ferrybridge MFE 2 Limited ("the operator")

whose registered office is

No.1 Forbury Place 43 Forbury Road Reading RG1 3JH

company registration number 09685158

to operate a regulated facility at

Ferrybridge Multifuel 2 Stranglands Lane Knottingley West Yorkshire WF11 8SQ

to the extent set out in the schedules.

This notice shall take effect from 31/08/2018.

Name	Date
Liz Ebbs	31/08/2018

Authorised on behalf of the Environment Agency

#### Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Table S1.3, Table S3.1, Table S3.1(a), Table S3.3 and Table S4.1 have been amended to rename emission point A1 to A1+A2
- Table S4.1 has been updated to remove discharges to sewer (emission point S1).
- Schedule 7 has been updated to include the site plan showing the following amendments:
  - o reduction in the site boundary to the north-east
  - o increase the south-eastern boundary
  - o relocate the attenuation pond,
  - relocate emission point W1
  - o rename emission point A1 to A1+A2
  - o relocate emission point A3
  - o remove emission points S1 and S2.

#### Schedule 2 - consolidated permit

Consolidated permit issued as a separate document.

### **Permit**

# The Environmental Permitting (England and Wales) Regulations 2016

#### Permit number

#### EPR/XP3833DK

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/XP3833DK/S002 authorising,

Ferrybridge MFE 2 Limited ("the operator"),

whose registered office is

No.1 Forbury Place 43 Forbury Road Reading RG1 3JH

company registration number 09685158

to operate an installation at

Ferrybridge Multifuel 2 Stranglands Lane Knottingley West Yorkshire WF11 8SQ

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Liz Ebbs	31/08/2018

Authorised on behalf of the Environment Agency

# **Conditions**

# 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
  - (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

#### 1.2 Energy efficiency

- 1.2.1 The operator shall:
  - (a) take appropriate measures to ensure that energy is recovered with a high level of energy efficiency and energy is used efficiently in the activities.
  - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (c) take any further appropriate measures identified by a review.
- 1.2.2 The operator shall review the practicability of Combined Heat and Power (CHP) implementation at least every 2 years. The results shall be reported to the Agency within 2 months of each review.

#### 1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
  - (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
  - (b) maintain records of raw materials and water used in the activities;
  - review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
  - (d) take any further appropriate measures identified by a review.

# 1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
  - (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

# 2 Operations

#### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

#### 2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

### 2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
  - (a) it is of a type and quantity listed in schedule 2 table S2.2 and
  - (b) it conforms to the description in the documentation supplied by the producer or holder; and
  - (c) having been separately collected for recycling, it is subsequently unsuitable for recovery by recycling.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
  - (a) the nature of the process producing the waste:
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 Waste shall not be charged, or shall cease to be charged, if:
  - (a) the combustion chamber temperature is below, or falls below, 850°C; or
  - (b) any continuous emission limit value in schedule 3 table S3.1(a) is exceeded; or
  - (c) any continuous emission limit value in schedule 3 table S3.1 is exceeded, other than under abnormal operating conditions; or
  - (d) monitoring results required to demonstrate compliance with any continuous emission limit value in schedule 3 table S3.1 are unavailable other than under abnormal operating conditions.

- 2.3.8 The operator shall have at least one auxiliary burner in each line at start up or shut down or whenever the operating temperature falls below that specified in condition 2.3.7, as long as incompletely burned waste is present in the combustion chamber. Unless the temperature specified in condition 2.3.7 is maintained in the combustion chamber, such burner(s) may be fed only with fuels which result in emissions no higher than those arising from the use of gas oil, liquefied gas or natural gas.
- 2.3.9 The operator shall record the beginning and end of each period of "abnormal operation".
- 2.3.10 During a period of "abnormal operation", the operator shall restore normal operation of the failed equipment or replace the failed equipment as rapidly as possible.
- 2.3.11 Where, during "abnormal operation", on an incineration line, any of the following situations arise, waste shall cease to be charged on that line until normal operation can be restored:
  - (a) continuous measurement shows that an emission exceeds any emission limit value in schedule 3 table S3.1 due to disturbances or failures of the abatement systems, or continuous emission monitor(s) are out of service, as the case may be, for a total of 4 hours uninterrupted duration;
  - (b) the cumulative duration of "abnormal operation" periods over 1 calendar year has reached 60 hours;
  - (c) continuous measurement shows that an emission exceeds any emission limit value in schedule 3 table S3.1 (a) due to disturbances or failures of the abatement systems;
  - (d) continuous emission monitors or alternative techniques to demonstrate compliance with the emission limit value(s) for particulates, TOC and / or CO in schedule 3 table S3.1 (a), as agreed in writing with the Environment Agency, are unavailable.
- 2.3.12 The operator shall interpret the end of the period of "abnormal operation" as the earliest of the following:
  - (a) when the failed equipment is repaired and brought back into normal operation;
  - (b) when the operator initiates a shutdown of the waste combustion activity, as described in the application or as agreed in writing with the Environment Agency;
  - (c) when a period of four hours has elapsed from the start of the "abnormal operation";
  - (d) when, in any calendar year, an aggregated period of 60 hours "abnormal operation" has been reached.
- 2.3.13 Bottom ash and APC residues shall not be mixed.

### 2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

# 2.5 Pre-operational conditions

2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

# 3 Emissions and monitoring

# 3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, except in "abnormal operation", when there shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1(a), and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

- 3.1.3 Wastes produced at the site shall, as a minimum, be sampled and analysed in accordance with schedule 3 table S 3.4. Additional samples shall be taken and tested and appropriate action taken, whenever:
  - (a) disposal or recovery routes change; or
  - (b) it is suspected that the nature or composition of the waste has changed such that the route currently selected may no longer be appropriate.

#### 3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.2.4 The Operator shall carry out monitoring of soil and groundwater in accordance with IED articles 14(1)(b), 14(1)(e) and 16(2) to the protocol agreed in writing with the Environment Agency under PO7.

#### 3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

#### 3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

#### 3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
  - (a) point source emissions specified in tables S3.1, S3.1(a) and S3.2;
  - (b) process monitoring specified in table S3.3;
  - (c) residue quality in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Environment Agency. Newly installed CEMs, or CEMs replacing existing CEMs, shall have MCERTS certification and have an MCERTS certified range which is not greater than 1.5 times the daily emission limit value (ELV) specified in schedule 3 table S3.1. The CEM shall also be able to measure instantaneous values over the ranges which are to be expected during all operating conditions. If it is necessary to use more than one range setting of the CEM to achieve this requirement, the CEM shall be verified for monitoring supplementary, higher ranges.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2, unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3 table S3.1; the Continuous Emission Monitors shall be used such that;
  - (a) the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed the following percentages of the emission limit values:

Carbon monoxide	10%
Sulphur dioxide	20%
Oxides of nitrogen (NO & NO <sub>2</sub> expressed as NO <sub>2</sub> )	20%
Particulate matter	
Total organic carbon (TOC)	30%
Hydrogen chloride	40%

- (b) valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods) from the measured values after having subtracted the value of the confidence intervals in condition 3.5.5 (a);
- (c) where it is necessary to calibrate or maintain the monitor and this means that data are not available for a complete half-hour period, the half-hourly average value shall in any case be considered valid if measurements are available for a minimum of 20 minutes during the half-hour. The number of half-hourly values so validated shall not exceed 5 per day;
- (d) daily average values shall be determined as the average of all the valid half-hourly average values within a calendar day. The daily average value shall be considered valid if no more than five half-hourly average values in any day have been determined not to be valid;
- (e) no more than ten daily average values per year shall be determined not to be valid.

#### 3.6 Pests

(a) The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

#### 3.6.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

#### 4 Information

#### 4.1 Records

- 4.1.1 All records required to be made by this permit shall:
  - (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) off-site environmental effects; and
    - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

### 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
  - (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
  - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
  - (d) the functioning and monitoring of the incineration plant in a format agreed with the Environment Agency. The report shall, as a minimum requirement (as required by Chapter IV of the Industrial Emissions Directive) give an account of the running of the process and the emissions into air and water compared with the emission standards in the IED.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
  - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

#### 4.3 Notifications

- 4.3.1 In the event:
  - (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
    - (i) inform the Environment Agency,
    - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
    - (iii) take the measures necessary to prevent further possible incidents or accidents;
  - (b) of a breach of any permit condition the operator must immediately—
    - (i) inform the Environment Agency, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
  - (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

# 4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

# Schedule 1 – Operations

Table S1.1 Activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
S5.1 A1 (b)	The incineration of non- hazardous waste in a waste incineration plant with a capacity of 3 tonnes per hour or more.	From receipt of waste to emission of exhaust gas and disposal of waste arising.  Waste types and quantities as specified in Table S2.2 of this permit.
Directly Associated Activities		
Electricity Generation  Generation of 90MWe electrical power using a steam turbine from energy recovered from the flue gases.		
Back up electrical generator	For providing emergency electrical power to the plant in the event of supply interruption.	

Table S1.2 Operating techniques		
Description Parts Date Rece		
Application	Section 5 – Operating Techniques	14/01/2015
	Section 6 – Emissions to Air, Water & Land.	
	Section 7 – Monitoring of Emissions	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall submit a written report to the Environment Agency on the implementation of its Environmental Management System and the progress made in the certification of the system by an external body or if appropriate submit a schedule by which the EMS will be certified.	Within 12 months of the date on which waste is first burnt.
IC2	The Operator shall submit a written proposal to the Environment Agency to carry out tests to determine the size distribution of the particulate matter in the exhaust gas emissions to air from emission point A1+2, identifying the fractions within the PM10, and PM2.5 ranges. The proposal shall include a timetable for approval by the Environment Agency to carry out such tests and produce a report on the results.  On receipt of written agreement by the Environment Agency to the proposal and the timetable, the Operator shall carry out the tests and submit to the Environment Agency a report on the results.	Within 6 months of the completion of commissioning.
IC3	The Operator shall submit a written report to the Environment Agency on the commissioning of the installation. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.	Within 4 months of the completion of commissioning.

Reference	Requirement	Date
IC4	The Operator shall carry out checks to verify the residence time, minimum temperature and oxygen content of the exhaust gases in the furnace whilst operating under the anticipated most unfavourable operating conditions. The results shall be submitted in writing to the Environment Agency.	Within 4 months of the completion of commissioning.
IC5	The Operator shall submit a written report to the Environment Agency describing the performance and optimisation of the Selective Non Catalytic Reduction (SNCR) system and combustion settings to minimise oxides of nitrogen (NOx) emissions within the emission limit values described in this permit with the minimisation of nitrous oxide emissions. The report shall include an assessment of the level of NOx and N2O emissions that can be achieved under optimum operating conditions.  The report shall also provide details of the optimisation (including dosing	Within 4 months of the completion of commissioning.
	rates) for the control of acid gases and dioxins	
IC6	The Operator shall carry out an assessment of the impact of emissions to air of the following component metals subject to emission limit values, i.e. Cd, Tl, As, Cr, Ni and V. A report on the assessment shall be made to the Environment Agency.	15 months from commencement of operations
	Emissions monitoring data obtained during the first year of operation shall be used to compare the actual emissions with those assumed in the impact assessment submitted with the Application. An assessment shall be made of the impact of each metal against the relevant EQS/EAL. In the event that the assessment shows that an EQS/EAL can be exceeded, the report shall include proposals for further investigative work.	
IC7	The Operator shall submit a written summary report to the Agency to confirm by the results of calibration and verification testing that the performance of Continuous Emission Monitors for parameters as specified in Table S3.1 and Table S3.1(a) complies with the requirements of BS EN 14181, specifically the requirements of QAL1, QAL2 and QAL3.	Initial calibration report to be submitted to the Agency within 3 months of completion of commissioning.
		Full summary evidence compliance report to be submitted within 18 months of commissioning.

Table S1.4 Pre-operational measures		
Reference	Pre-operational measures	
PO1	Prior to the commencement of commissioning, the Operator shall send a summary of the site Accident Management Plan to the Environment Agency and make available for inspection all documents and procedures which form part of the plan.	
PO2	Prior to the commencement of commissioning, the operator shall submit a written report to the Agency detailing the waste acceptance procedure to be used at the site. The waste acceptance procedure shall include the process and systems by which the Waste Derived Fuel is identified and by which wastes unsuitable for incineration at the site will be controlled. The procedure shall be implemented in accordance with the written approval from the Agency.	
PO3	Prior to the commencement of commissioning, the Operator shall send a summary of the site Environment Management System (EMS) to the Environment Agency and make available for inspection all documents and procedures which form part of the EMS. The EMS shall be developed in line with the requirements set out in Section 1 of How to comply with your environmental permit – Getting the basics right. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit.	
PO4	Prior to the commencement of commissioning, the Operator shall send a report to the Environment Agency which will contain a comprehensive review of the options available for utilising the heat generated by the waste incineration process in order to ensure that it is recovered as far as practicable. The review shall detail any identified proposals for improving the recovery and utilisation of waste heat and shall provide a timetable for their implementation.	
PO5	Prior to the commencement of commissioning, the Operator shall submit to the Environment Agency for approval a protocol for the sampling and testing of incinerator bottom ash for the purposes of assessing its hazard status. Sampling and testing shall be carried out in accordance with the protocol as approved.	
PO6	Prior to the commencement of commissioning; the Operator shall provide a written commissioning plan, including timelines for completion, for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved.	
PO7	The Operator shall submit the written protocol referenced in condition 3.2.4 for the monitoring of soil and groundwater for approval by the Environment Agency. The protocol shall demonstrate how the Operator will meet the requirements of Articles 14(1)(b), 14(1)(e) and 16(2) of the IED.	
	The procedure shall be implemented in accordance with the written approval from the Agency.	
PO8	At least three months before operation, the Operator shall submit a written report to the Environment Agency specifying arrangements for continuous and periodic monitoring of emissions to air to comply with Environment Agency guidance notes M1 and M2. The report shall include the following:	
	Plant and equipment details, including accreditation to MCERTS     Methods and standards for sampling and analysis	
	<ul> <li>Methods and standards for sampling and analysis</li> <li>Details of monitoring locations, access and working platforms</li> </ul>	

# Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description Specification	
Fuel for standby generator < 0.1% sulphur content	

Table S2.2 Permitte	d waste types and quantities for incineration plant
Maximum quantity	675,000 tonnes / year
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 07	wastes from forestry
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03	materials unsuitable for consumption or processing
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02	wastes from the textile industry
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging

Table S2.2 Permitte	d waste types and quantities for incineration plant
Maximum quantity	675,000 tonnes / year
Waste code	Description
15 01 02	plastic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	end-of-life tyres
16 01 19	plastic
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 02	wood, glass and plastic
17 02 01	wood
17 02 03	plastic
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 04	plastic and rubber
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

Table S2.2 Permitted waste types and quantities for incineration plant						
Maximum quantity	75,000 tonnes / year					
Waste code	Description					
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS					
20 01	separately collected fractions (except 15 01)					
20 01 01	paper and cardboard					
20 01 08	biodegradable kitchen and canteen waste					
20 01 10	clothes					
20 01 11	textiles					
20 01 25	edible oil and fat					
20 01 38	wood other than that mentioned in 20 01 37					
20 01 39	plastics					

# Schedule 3 – Emissions and monitoring

	urce emissions to air – er Parameter	Source	Limit (including	Reference period	Monitoring	Monitoring standard(s) or
Emission point ref. & location	Parameter	Source	unit)	Reference period	frequency	method(s)
A1+A2 as shown on the site plan in Schedule 7	Particulate matter	Main stack	30 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Particulate matter	Main stack	10 mg/m3	Daily average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Total Organic Carbon (TOC)	Main stack	20 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Total Organic Carbon (TOC)	Main stack	10 mg/m3	Daily average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Hydrogen chloride	Main stack	60 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Hydrogen chloride	Main stack	10 mg/m3	Daily average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Hydrogen fluoride	Main stack	2 mg/m3	Periodic over minimum 1-hour period	Quarterly in first year. Then biannual	BS ISO 15713
A1+A2 as shown on the site plan in Schedule 7	Carbon monoxide	Main stack	100 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Carbon monoxide	Main stack	50 mg/m3	Daily average	Continuous	BS EN 14181 and BS EN 15267-3

Table S3.1 Point so	urce emissions to air – emi	ssion limits and r	monitoring require	ments		
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1+A2 as shown on the site plan in Schedule 7	Sulphur dioxide	Main stack	200 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Sulphur dioxide	Main stack	50 mg/m3	Daily average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Oxides of nitrogen (NO and NO2 expressed as NO2)	Main stack	400 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Oxides of nitrogen (NO and NO2 expressed as NO2)	Main stack	180 mg/m3	Daily average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Cadmium & thallium and their compounds (total)	Main stack	0.05 mg/m3	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 14385
A1+A2 as shown on the site plan in Schedule 7	Mercury and its compounds	Main stack	0.05 mg/m3	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 13211
A1+A2 as shown on the site plan in Schedule 7	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	Main stack	0.5 mg/m3	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 14385
A1+A2 as shown on the site plan in Schedule 7	Ammonia (NH <sub>3</sub> )	Main stack	30 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3
A1+A2 as shown on the site plan in Schedule 7	Dioxins / furans (I-TEQ)	Main stack	0.1 ng/m3	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 1948 Parts 1, 2 and 3
A1+A2 as shown on the site plan in Schedule 7	Dioxins / furans (WHO- TEQ Humans / Mammals)	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 1948 Parts 1, 2 and 3

Table S3.1 Point sou	urce emissions to air – emi	ssion limits and n	nonitoring require	ments		
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1+A2 as shown on the site plan in Schedule 7	Dioxins / furans (WHO- TEQ Fish)	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 1948 Parts 1, 2 and 3
A1+A2 as shown on the site plan in Schedule 7	Dioxins / furans (WHO- TEQ Birds)	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 1948 Parts 1, 2 and 3
A1+A2 as shown on the site plan in Schedule 7	Dioxin-like PCBs (WHO- TEQ Humans / Mammals)	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 1948-4
A1+A2 as shown on the site plan in Schedule 7	Dioxin-like PCBs (WHO- TEQ Fish)	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then biannual	BS EN 1948-4
A1+A2 as shown on the site plan in Schedule 7	Dioxin-like PCBs (WHO- TEQ Birds)	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then bi-annual	BS EN 1948-4
A1+A2 as shown on the site plan in Schedule 7	Specific individual polycyclic aromatic hydrocarbons (PAHs), as specified in Schedule 6.	Main stack	No limit set	Periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then bi-annual	BS ISO 11338 Parts 1 and 2.
A3 as shown on the site plan in Schedule 7	No parameters set	Emergency diesel generator	No limit set			

Table S3.1(a) Point source emissions to air during abnormal operation of incineration plant – emission limits and monitoring requirements						
Emission point ref. & Parameter Source Limit (including unit) Reference period frequency Monitoring standard or method					Monitoring standard or method	
A1+A2 as shown on the site plan in Schedule 7	Particulate matter	Main stack	150 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3 during abatement plant failure

Table S3.1(a) Point source emissions to air during abnormal operation of incineration plant – emission limits and monitoring requirements							
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method	
A1+A2 as shown on the site plan in Schedule 7	Total Organic Carbon (TOC)	Main stack	20 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3 during abatement plant failure	
A1+A2 as shown on the site plan in Schedule 7	Carbon monoxide	Main stack	100 mg/m3	½-hr average	Continuous	BS EN 14181 and BS EN 15267-3 during abatement plant failure	

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location						
W1 as shown on the site plan in Schedule 7	Surface water	No parameters set	No limit set			

Table S3.3 Process monitoring requirements					
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications	
As identified in the Application	Wind Speed and Direction	Continuous	Anemometer		
Location close to the Combustion Chamber inner wall or as identified and justified in Application.	Temperature (°C)	Continuous	Traceable to national standards	As agreed in writing with the Agency.	
A1+A2 as shown on the site plan in Schedule 7	Exhaust gas temperature	Continuous	Traceable to national standards	As agreed in writing with the Agency.	
A1+A2 as shown on the site plan in Schedule 7	Exhaust gas pressure	Continuous	Traceable to national standards	As agreed in writing with the Agency.	
A1+A2 as shown on the site plan in Schedule 7	Exhaust gas oxygen content	Continuous	BS EN 15267-3 BS EN 14181		
A1+A2 as shown on the site plan in Schedule 7	Exhaust gas water vapour content	Continuous	BS EN 15267-3 BS EN 14181	Unless gas is dried before analysis of emissions.	

Table S3.4 Residue quality						
Emission point reference or source or description of point of measurement	Parameter	Limit	Monitoring frequency	Monitoring standard or method *	Other specifications	
Bottom Ash	TOC	<3%	Monthly in the first year of operation. Then Quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'		
Bottom Ash	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	No limit set	Monthly in the first year of operation. Then Quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'		
Bottom Ash	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	No limit set	Before use of a new disposal or recycling route	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'		
APC Residues	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	No limit set	Monthly in the first year of operation. Then Quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'		
APC Residues	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	No limit set	Before use of a new disposal or recycling route	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'		

<sup>\*</sup> Or other equivalent standard as agreed in writing with the Environment Agency.

# Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring  Parameter	Emission or monitoring	Reporting period	Period begins
raiailletei	point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1	A1+A2	Quarterly	1 Jan, 1 Apr, 1 Jul and 1 Oct
Emissions to water Parameters as required by condition 3.5.1	W1	Annually	1 Jan
TOC Parameters as required by condition 3.5.1	Bottom Ash	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs Parameters as required by condition 3.5.1	Bottom Ash	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions  Parameters as required by condition 3.5.1	Bottom Ash	Before use of a new disposal or recycling route	
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs Parameters as required by condition 3.5.1	APC Residues	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions  Parameters as required by condition 3.5.1	APC Residues	Before use of a new disposal or recycling route	
Functioning and monitoring of the incineration plant as required by condition 4.2.2		Annually	1 Jan

Table S4.2: Annual production/treatment				
Parameter	Units			
Total Waste Derived Fuel Incinerated	tonnes			
Electrical energy produced	KWhrs			
Thermal energy produced e.g. steam for export	KWhrs			
Electrical energy exported	KWhrs			
Electrical energy used on installation	KWhrs			
Waste heat utilised by the installation	KWhrs			

Table S4.3 Performance parameters				
Parameter	Frequency of assessment	Units		
Electrical energy exported, imported and used at the installation	Quarterly	KWhrs / tonne of waste incinerated		
Fuel oil consumption	Quarterly	Kg / tonne of waste incinerated		
Mass of Bottom Ash produced	Quarterly	Kg / tonne of waste incinerated		
Mass of APC residues produced	Quarterly	Kg / tonne of waste incinerated		
Mass of Other solid residues produced	Quarterly	Kg / tonne of waste incinerated		
Ammonia / Urea consumption	Quarterly	Kg / tonne of waste incinerated		
Activated Carbon consumption	Quarterly	Kg / tonne of waste incinerated		
Lime / Sodium Bicarbonate consumption	Quarterly	Kg / tonne of waste incinerated		
Water consumption	Quarterly	Kg / tonne of waste incinerated		
Periods of abnormal operation	Quarterly	No of occasions and cumulative hours for current calendar year for each line.		

Table S4.4 Reporting forms			
Media/parameter	Reporting format	Date of form	
Air	Form air 1 or other form as agreed in writing by the Environment Agency	25/11/15	
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	25/11/15	
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	25/11/15	
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	25/11/15	

# Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

# Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	
(a) Notification requirements for a accident, or emission of a substa causing or may cause significant	any malfunction, breakdown or failure of equipment or techniques, nce not controlled by an emission limit which has caused, is pollution
To be notified within 24 hours of	detection
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	
(b) Notification requirements for t	he breach of a limit
To be notified within 24 hours of	detection unless otherwise specified below
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for	the breach of a li	mit	
To be notified within 24 hours of	detection unless	otherwise specified belo	ow
Measures taken, or intended to be taken, to stop the emission			
Time periods for notification follo	wing detection of	of a breach of a limit	
Parameter			Notification period
(c) Notification requirements for	the detection of a	any significant adverse e	nvironmental effect
To be notified within 24 hours of	detection		
Description of where the effect on the environment was detected			
Substances(s) detected			
Concentrations of substances detected			
Date of monitoring/sampling			
Part B – to be submit		n as practicable	<b>)</b>
Any more accurate information on t notification under Part A.	he matters for		
Measures taken, or intended to be taxecurrence of the incident	aken, to prevent		
Measures taken, or intended to be to limit or prevent any pollution of the which has been or may be caused be	environment		
The dates of any unauthorised emis facility in the preceding 24 months.	ssions from the		
Name*			
Post			
Signature			_
Date			

<sup>\*</sup> authorised to sign on behalf of the operator

# Schedule 6 – Interpretation

"abatement equipment" means that equipment dedicated to the removal of polluting substances from releases from the installation to air or water media.

"abnormal operation" means any technically unavoidable stoppages, disturbances, or failures of the abatement plant or the measurement devices, during which the emissions into the air and the discharges of waste water may exceed the prescribed emission limit values

"accident" means an accident that may result in pollution.

"APC residues" means air pollution control residues

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by the Environment Agency 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.

"bottom ash" means ash falling through the grate / transported by the grate.

"CEM" Continuous emission monitor

"CEN" means Commité Européen de Normalisation.

"bi-annual" means twice per year with at least five months between tests.

"daily average" for releases of substances to air means the average of valid half-hourly averages over a calendar day during normal operation.

"dioxin and furans" means polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans.

"disposal". Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"incineration line" means all of the incineration equipment related to a common discharge to air location.

"Industrial Emissions Directive" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

"ISO" means International Standards Organisation.

*'List of Wastes'* means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time

"LOI" means loss on ignition a technique used to determine the combustible material by heating the ash residue to a high temperature

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"PAH" means Poly-cyclic aromatic hydrocarbon, and comprises Anthanthrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[b]naph(2,1-d)thiophene, Benzo[c]phenanthrene, Benzo[ghi]perylene, Benzo[a]pyrene, Cholanthrene, Chrysene, Cyclopenta[c,d]pyrene, Dibenzo[ah]anthracene, Dibenzo[a,i]pyrene Fluoranthene, Indo[1,2,3-cd]pyrene, Naphthalene

"PCB" means Polychlorinated Biphenyl. Dioxin-like PCBs are the non-ortho and mono-ortho PCBs listed in the table below.

"pests" means Birds, Vermin and Insects.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"shut down" is any period where the plant is being returned to a non-operational state and there is no waste being burned as described in the application or agreed in writing with the Environment Agency.

"start up" is any period, where the plant has been non-operational, after igniting the auxiliary burner until waste has been fed to the plant [in sufficient quantity to cover the grate and] to initiate steady-state conditions as described in the application or agreed in writing with the Environment Agency.

"TOC" means Total Organic Carbon. In respect of releases to air, this means the gaseous and vaporous organic substances, expressed as TOC. In respect of Bottom Ash, this means the total carbon content of all organic species present in the ash (excluding carbon in elemental form).

'Waste code' means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

"Waste Framework Directive" or "WFD" means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

in relation to gases from incineration plants other than those burning waste oil, the concentration in dry air at temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 11% dry

For dioxins/furans and dioxin-like PCBs the determination of the toxic equivalence concentration (I-TEQ, & WHO-TEQ for dioxins/furans, WHO-TEQ for dioxin-like PCBs) stated as a release limit and/ or reporting requirement, the mass concentrations of the following congeners have to be multiplied with their respective toxic equivalence factors before summing. When reporting on measurements of dioxins/furans and dioxin-like PCBs, the toxic equivalence concentrations should be reported as a range based on: all congeners less than the detection limit assumed to be zero as a minimum, and all congeners less then the detection limit assumed to be at the detection limit as a maximum. However the minimum value should be used when assessing compliance with the emission limit value in table S3.1.

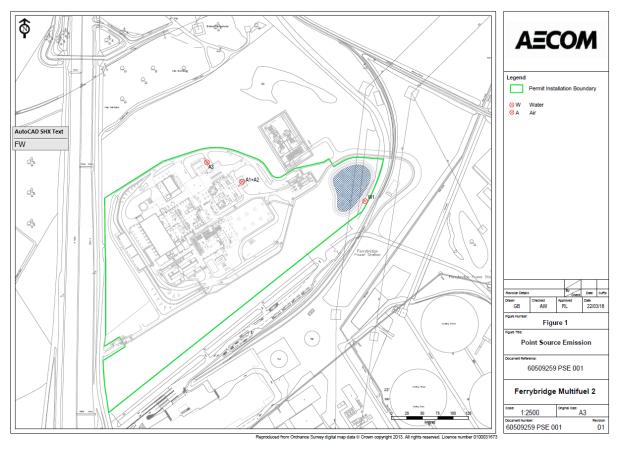
TEF schemes for dioxins and furans					
Congener	I-TEF	WHO-TEF			
	1990	2005	1997/8		
		Humans / Mammals	Fish	Birds	
Dioxins					
2,3,7,8-TCDD	1	1	1	1	
1,2,3,7,8-PeCDD	0.5	1	1	1	
1,2,3,4,7,8-HxCDD	0.1	0.1	0.5	0.05	
1,2,3,6,7,8-HxCDD	0.1	0.1	0.01	0.01	
1,2,3,7,8,9-HxCDD	0.1	0.1	0.01	0.1	

TEF schemes for dioxins and furans					
Congener	I-TEF	WHO-TEF	WHO-TEF		
	1990	2005	1997/8	1997/8	
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.001	<0.001	
OCDD	0.001	0.0003	-	-	
Furans					
2,3,7,8-TCDF	0.1	0.1	0.05	1	
1,2,3,7,8-PeCDF	0.05	0.03	0.05	0.1	
2,3,4,7,8-PeCDF	0.5	0.3	0.5	1	
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1	0.1	
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1	0.1	
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1	0.1	
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1	0.1	
1,2,3,4,6,7,8_HpCDF	0.01	0.01	0.01	0.01	
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.01	0.01	
OCDF	0.001	0.0003	0.0001	0.0001	

TEF schemes for dioxin-like PCBs				
Congener	WHO-TEF			
	2005	1997/8		
	Humans /	Fish	Birds	
	mammals			
Non-ortho PCBs				
3,4,4',5-TCB (81)	0.0001	0.0005	0.1	
3,3',4,4'-TCB (77)	0.0003	0.0001	0.05	
3,3',4,4',5 - PeCB (126)	0.1	0.005	0.1	
3,3',4,4',5,5'-HxCB(169)	0.03	0.00005	0.001	
Mono-ortho PCBs				
2,3,3',4,4'-PeCB (105)	0.00003	<0.000005	0.0001	
2,3,4,4',5-PeCB (114)	0.00003	<0.000005	0.0001	
2,3',4,4',5-PeCB (118)	0.00003	<0.000005	0.00001	
2',3,4,4',5-PeCB (123)	0.00003	<0.000005	0.00001	
2,3,3',4,4',5-HxCB (156)	0.00003	<0.000005	0.0001	
2,3,3',4,4',5'-HxCB (157)	0.00003	<0.000005	0.0001	
2,3',4,4',5,5'-HxCB (167)	0.00003	<0.000005	0.00001	
2,3,3',4,4',5,5'-HpCB (189)	0.00003	<0.000005	0.00001	

<sup>&</sup>quot;year" means calendar year ending 31 December.

# Schedule 7 – Site plan



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