



Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Avonmouth Drum Incinerator

pack2pack UK Limited
Avonmouth Way West
Avonmouth
Bristol BS11 9HD

Permit number
QP3638UP

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Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate an installation carrying out activities covered by the description in Section 5.1A(1)(a) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit:

Section 5.1A(1)(a) - The incineration of hazardous waste in an incineration plant.

Aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned. In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT, the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows.

The purpose of the Avonmouth Drum Incineration facility is to facilitate the decontamination of nominally empty steel drums containing a residue of organic and/or inorganic contaminants which cannot easily be removed via other physical means [chipping, scraping, pouring, using solvents etc.] On arrival, drums are first compared against the paperwork supplied, to ensure that they are able to be accepted by the facility. Once they have been defined as acceptable, they then enter a drum store to await treatment by the facility, where they remain until selected for incineration. Immediately prior to incineration, each drum has the top removed, and the contents are again checked. Any free-flowing liquids are removed from the drum at this point, before loading onto a chain-driven furnace feed. The drums then enter the gas-fired furnace and are heated for a given residence time [60 to 100 seconds] at a given temperature [550 to 800°C, with an afterburner operating at a minimum of 850 °C.] During the process, the drums are inverted in order that any ash resulting from the combustion process, as well as any unburnt materials are collected in a water-filled sump underneath the furnace chamber. [This sump is filled with water to prevent auto-ignition.] Emissions from this process are released from the main A1 [Incinerator] stack, which vents to atmosphere at a height of 20m via a bag-filter plant incorporating a hydrated lime dosing system to neutralise acid gases. Following the incineration process, the drums are shot-blasted to provide feedstock for a drum refurbishing operation which is on an adjacent site but outside the installation boundary. Emissions from the shotblasting operation are made from the A2 [Shotblasting] stack, which is a stack terminating 4m above the apex of the roof of the building in which it is housed. Emissions from this stack are negligible, and have not been assessed in detail as a result. The installation processes around 8000 tonnes of 45 gallon steel drums per annum. 5600 tonnes of these are converted into reconditioned steel drums, and 2400 are reprocessed for the steel recycling industry. There are no discharges from the installation to controlled waters, all surface water being discharged to the Wessex Water sewer at point S1, via a three stage interceptor to a horizontal holding tank and thence to sewer after passing a pH monitor. The system has inbuilt stop-valves to retain out of specification effluent. The working area of the installation is surfaced with impermeable concrete hardstanding, with integral bunding for critical areas [ie. drum opening point.] The installation contains a small IBC washing facility (although this activity is not regulated under the PPC Permit), and extensive storage arrangements for waste [incoming] and finished [decontaminated] drums. Waste is kept on site in skips, notably spent lime arising from the bag filters, shotblast dust and furnace ashes arising from the water sump to the furnace.

The Waste Incineration (England and Wales) Regulations 2002 (SI 2002 No. 2980) and the Pollution Prevention and Control (Waste Incineration Directive) (England and Wales) Direction 2002 together implement the requirements of the Waste Incineration Directive (Directive (EC 2000/76/EC) on the Incineration of Waste. The Installation regulated under this Permit contains an existing Waste Incineration Installation (as defined in the WI Regulations) in which the incineration of waste in an incineration plant is carried out. Conditions delivering the corresponding requirements of the relevant articles of the Waste Incineration Directive have been incorporated into this Permit.

Note that the Permit requires the submission of certain information to the Agency (see Sections 4 and 5). In addition, the Agency has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Other PPC Permits relating to this installation		
Permit holder	Permit Number	Date of Issue
None		

Superseded Licences/Authorisations/Consents relating to this installation		
Holder	Reference Number	Date of Issue
Blagden Packaging NV	EA/01/AG7008/BI1056	05/09/03 (30/06/00)
Blagden Packaging NV	FP3235SY	15/12/05

Other activities may take place on the site of this installation which are not regulated under this Permit or any other PPC Permit referred to in the Table above. These activities include the spraying and reconditioning of drums [regulated under the terms of a Part B IPPC Permit by Bristol City Council], and the non-PPC IBC washing plant.

Other existing Licences/Authorisations/Registrations relating to this site		
Holder	Reference Number	Date of issue
None		

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

Variations to the Permit

This Permit may be varied in the future (by the Agency serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Agency that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. If, however, the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be "a fit and proper person" as required by the PPC Regulations.

Talking to us

Please quote the Permit Number if you contact the Agency about this Permit.

To give a Notification under Condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

Status Log

Detail	Date	Response Date
Application FP3235SY	Received 21/03/05	
Response to request for information	Request dated 23/05/05	Response dated 09/06/05
Permit determined	15/12/05	
Application for transfer - Company name change	Received 16/04/07	
Permit issue	31/05/07	

End of Introductory Note.

Permit
Pollution Prevention and Control
Regulations 2000



**ENVIRONMENT
AGENCY**

Permit

Permit number
FP3235SY

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations (SI 2000 No 1973), hereby authorises **pack2pack UK Limited** ("the Operator"),

Of/ whose Registered Office (or principal place of business) is

Avonmouth Way West

Avonmouth

Bristol BS11 9HD

Company registration number 05961878

to operate an Installation at

Avonmouth Drum Incinerator

Avonmouth Way West

Avonmouth

Bristol BS11 9HD

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

Signed	Date

J. Hescott

Authorised to sign on behalf of the Agency

Conditions

1 General

1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Table 1.1.1 - Permitted Activities

Activity listed in Schedule 1 of the PPC Regulations or Directly- Associated Activity	Description of specified activity	Limits of specified activity
Section 5.1A(1)(a) : The incineration of hazardous waste in an incineration plant	Incineration of nominally empty steel drums to remove contaminants as part of drum reconditioning process.	Incineration of drums to remove surface contaminant, including the nominated Directly Associated Activities as set out below. Incineration limited to incineration plant with A1 release point and APC plant. Does not include adjacent drum respraying or IBC washing activities.
	Shotblasting of cleaned drums	Limited to shotblasting unit and A2 release point.
	Storage prior to off-site disposal of air pollution control [APC] and furnace bottom ash residues, and rejected whole loads.	APC and furnace bottom ash residues are stored in one tonne sacks and flexible IBC's on a trailer prior to disposal. Rejected whole loads are quarantined in the yard area prior to collection.
	Storage, separation and discharge of process effluent to sewer.	Limited to the foul water collection system and discharge to sewer at the S1 discharge point. Does not include the drainage from the IBC washing plant, or the respraying plant.
	Receipt and sorting of contaminated drums and decanting of liquid residues to IBC	Receipt of drummed waste and storage prior to incineration is confined to the yard area. Drums may be stored on trailers, or palletised. Decanting of liquid residues is limited to the decanting point immediately adjacent to the drum-deheading point at the front of the incinerator.

1.2 Site

1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in green on the Site Plan at Schedule 5 to this Permit.

1.3 Overarching Management Condition

1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

1.4 Improvement Programme

1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Agency within 14 days of the completion of each such requirement.

Table 1.4.1: Improvement programme

Reference	Requirement	Date
IC1	The Operator shall install and commission a continuous monitor to monitor oxides of nitrogen. The monitor shall be MCERTS-accredited for this purpose. A report on the commissioning of this monitor shall be supplied to the Agency.	28/12/05
IC2	The Operator shall install and commission a continuous monitor to monitor pressure in the A1 exhaust duct. A report on the commissioning of this monitor shall be supplied to the Agency.	28/12/05
IC3	The Operator shall provide to the Agency a report on the improvements required to achieve the emission levels of :- <ul style="list-style-type: none"> • Oxides of nitrogen [as NOx] • Mercury, cadmium, thallium and total heavy metals to air which are required from 01/01/07. The report shall propose a plan and timescale for implementation of the improvements and demonstrate how they represent BAT for the Permitted Installation.	01/01/06
IC4	Submit a proposal to the Agency to undertake tests to determine the size distribution of the particulate matter in the exhaust gas emissions to air from emission point A1, identifying the fractions within the PM ₁₀ , PM _{2.5} and PM _{1.0} ranges. The proposal shall include a timetable to carry out such tests and produce a report on the results. On receipt of written agreement by the Agency to the proposal and the timetable, the Operator shall undertake the tests and submit to the Agency a report on the results.	Within 6 months of permit issue.
IC5	Provide a cost-benefit study using the methodology in Environmental Assessment and Appraisal of BAT, to demonstrate the relative merits of primary measures, SNCR and SCR for the installation. The comparison will show the cost per tonne of NOx and acid (as HCl) abated over the projected life of the plant using the asset lives and typical discount rates given in that document. If the study identifies that the primary measures in use at the Installation are not adequate, or that the use of SNCR or SCR are necessary for the installation after giving regard to the requirements in the Sector Guidance Note S5.01, Ver.1, July 2004, then include a timetable of proposed works.	30/06/06
IC6	Develop a written Site Closure Plan with regard to the requirements set out in Section 2.11 of Agency Guidance Note IPPC S5.01, Ver.1 July 2004. On completion, a summary shall be submitted to the Agency in writing.	31/07/06
IC7	Undertake an energy efficiency audit within 12 months of issue of	Within

	the Permit, having reference to the requirements outlined in Sections 2.7.1 to 2.7.3 of the Sector Guidance Note S5.01, Ver.1, July 2004. Where this audit identifies improvements, the Operator shall provide for approval by the Agency a timetable of the proposed measures.	12 months of permit issue.
IC8	Calibrate and verify the performance of Continuous Emission Monitors for release points and parameters as specified in Table 2.2.2 to BS EN 14181 and submit a summary report to the Agency as evidence of compliance with the requirements of BS EN 14181.	28/12/06.
IC9	The Operator shall review the continuous emissions monitoring arrangements with the view to moving from the demonstration of compliance with the 98%ile half hourly average emission limits included within this Permit, to demonstrating 100% compliance with half hourly average emission limit values in column A of Annex V of the Waste Incineration Directive. A written summary report of the review shall be submitted to the Environment Agency detailing the improvements identified and a timetable for their implementation. As a minimum this timetable shall include replacement of end of life equipment/monitors with equipment/monitors that can achieve the requirements of this permit and demonstration of compliance with the 100% emission limit value identified in Column A of Annex V of the Waste Incineration Directive.	31/12/06

- 1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the Agency within 14 days of such date.

1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application (and the Site Protection and Monitoring Programme, as the case may be) shall be deemed to be amended.

1.6 Pre-Operational Conditions

1.6.1 There are no pre-operational conditions

1.7 Off-site Conditions

1.7.1 There are no off-site conditions

2 Operating conditions

2.1 In-Process Controls

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application	The response to question B2.1, given in pages 1-15 of the Application.	21/03/05
	The response to question B2.2, given in pages 15-21 of the Application.	21/03/05
	The response to question B2.10, given in pages 35-44 of the Application.	21/03/05
Schedule 4 Notice	The response to the Schedule 4 'Request for further information' Notice served on the Operator on the 23/05/05	09/06/05

- 2.1.2 The Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.8 of this Permit or as otherwise agreed in writing by the Agency.
- 2.1.3 Only the wastes specified in Schedule 6 shall be incinerated in the Permitted Installation subject to the limitations in quantities not exceeding those specified for the waste types specified in Table 2.1.2.

Table 2.1.2: Permitted Waste Types

Waste type	Limitations	Maximum throughput
Emptied 45 gallon steel drums	Emptied drums meeting the Blagden Waste Acceptance Criteria [as defined in insert E4, submitted in support of the Application.]	9000 tonnes per annum

- 2.1.4 The Operator shall incinerate only those hazardous wastes where the throughputs, calorific values and pollutant composition are within the ranges specified in the Application
- 2.1.5 The Operator shall ensure that prior to accepting waste subject to condition 2.1.4 at the Permitted Installation, it has obtained sufficient information about the hazardous wastes to be burned to demonstrate compliance with the characteristics described in condition 2.1.4.
- 2.1.6 No condition applies.
- 2.1.7 Waste shall not be charged, or shall cease to be charged, into the incinerator if:
- the combustion chamber temperature is below, or falls below, 850°C or
 - the oxygen level is below, or falls below, 6% (wet) by volume; or
 - any continuous emission limit value in Table 2.2.2(a) is exceeded; or
 - any continuous emission limit value in Table 2.2.2 is exceeded, other than under abnormal operating conditions ; or

- monitoring results required to demonstrate compliance with any continuous emission limit value in Table 2.2.2 are unavailable other than under abnormal operating conditions.
- 2.1.8 The Operator shall operate at least one auxiliary burner in each line of the Permitted Installation at start-up or shut-down or whenever the operating temperature falls below that specified in condition [2.1.7], as long as incompletely burned waste is present in the combustion chamber. Unless the temperature specified in condition 2.1.7 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.
- 2.1.9 The Operator shall record the beginning and end of each period of abnormal operation.
- 2.1.10 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.
- 2.1.11 Where, during abnormal operation, any of the following situations arise, the Operator shall, as soon as is practicable, cease the burning of waste until normal operation can be restored:
- continuous measurement shows that an emission exceeds any emission limit value in Table 2.2.2, or continuous emission monitor(s) are out of service, as the case may be, for a total of four hours uninterrupted duration;
 - the cumulative duration of abnormal operation periods over one calendar year exceeds 60 hours on an incineration line;
 - continuous measurement shows that an emission exceeds any emission limit value in Table 2.2.2 (a);
 - the alternative techniques to demonstrate compliance with the abnormal operation emission limit value(s) in Table 2.2.2 (a), as detailed in the Application or as agreed in writing with the Agency, are unavailable.
- 2.1.12 The Operator shall interpret the end of the period of abnormal operation as the earliest of the following:
- when the failed equipment is repaired and brought back into normal operation;
 - when the Operator initiates a shut-down of the waste combustion activity, as described in the Application;
 - when a period of 4 hours has elapsed from the start of the abnormal operation;
 - when, in any calendar year, an aggregated period of 60 hours abnormal operation has been reached for a given incineration line.
- 2.1.13 No condition applies.

2.2 Emissions

2.2.1 Emissions to Air, (including heat, but excluding Odour, Noise or Vibration) from Specified Points

- 2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.
- 2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table.

Table 2.2.1 : Emission points to air

Emission point reference or description	Source	Location of emission point
A1	Drum incinerator via bag filter unit and 20m stack	Point 1 on site plan E15 in Application
A2	Drum shotblaster via bag filter unit and stack	Point 2 on site plan E15 in Application

2.2.1.3 The limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2 shall not be exceeded except during a period of abnormal operation. During a period of abnormal operation, the limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2 (a) shall not be exceeded.

Table 2.2.2 – Emission limit values, monitoring frequencies and methods for releases to air

Emission point reference	Parameter	Limit (including Reference Period) ¹	Monitoring frequency	Monitoring method
A1	Particulate matter	10 mg/m ³ , ½-hr average ¹⁰	Continuous measurement	BS EN 13284-2 ^{6 8}
A1	Particulate matter	10 mg/m ³ , daily average	Continuous measurement	BS EN 13284-2 ^{6 8}
A1	Particulate matter	20 mg/m ³ , periodic over minimum 1-hour period	Annually	BS EN 13284-1, or alternative method as agreed with the Agency
A1	Total Organic Carbon (TOC)	10 mg/m ³ , ½-hr average ¹⁰	Continuous measurement	BS EN 12619 ^{6 8}
A1	Total Organic Carbon (TOC)	10 mg/m ³ , daily average	Continuous measurement	BS EN 12619 ^{6 8}
A1	Total Organic Carbon (TOC)	20 mg/m ³ , periodic over minimum 1-hour period	Annually	BS EN 12619
A1	Hydrogen chloride	10 mg/m ³ , ½-hr average ¹⁰	Continuous measurement	MCERTS certified instruments ^{7 9}
A1	Hydrogen chloride	10 mg/m ³ , daily average	Continuous measurement	MCERTS certified instruments ^{7 9}
A1	Hydrogen chloride	30 mg/m ³ , periodic over minimum 1-hour period	Annually	BS EN 1911 or alternative method as agreed with the Agency
A1	Hydrogen fluoride	2 mg/m ³ , periodic over minimum 1-hour period	Bi-annual	USEPA Method 26/26A or alternative method as agreed with the Agency
A1	Carbon monoxide	100 mg/m ³ , ½-hr average	Continuous measurement	ISO 12039 ^{4 8}
A1	Carbon monoxide	50 mg/m ³ , daily average	Continuous measurement	ISO 12039 ^{4 8}
A1	Carbon monoxide	100 mg/m ³ , periodic over minimum 4 hour period, data to be reported as ½-hour averages	Annually	ISO 12039 or alternative method as agreed with the Agency
A1	Sulphur dioxide	50 mg/m ³ , ½-hr average ¹⁰	Continuous measurement	BS 6069-4.4 ^{5 8}
A1	Sulphur dioxide	50 mg/m ³ , daily average	Continuous measurement	BS 6069-4.4 ^{5 8}
A1	Sulphur dioxide	200 mg/m ³ , periodic over	Annually	BS 6069-4.1 or alternative method

Table 2.2.2 – Emission limit values, monitoring frequencies and methods for releases to air				
Emission point reference	Parameter	Limit (including Reference Period)¹	Monitoring frequency	Monitoring method
		minimum 4 hour period, data to be reported as ½ hour averages		as agreed in writing with the Agency
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³ , daily average [from 28/12/05 until 31/12/06]	Continuous measurement	ISO 10849 ^{5,8}
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	400 mg/m ³ , daily average [from 01/01/07]	Continuous measurement	ISO 10849 ^{5,8}
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³ periodic over minimum 4 hour period, data reported as ½- hour averages [until 31/12/06]	Annually	ISO 10849 or BS ISO 11564 or alternative method as agreed with the Agency
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	400 mg/m ³ periodic over minimum 4 hour period, data reported as ½- hour averages [from 01/01/07]	Annually	ISO 10849 or BS ISO 11564 or alternative method as agreed with the Agency
A1	Cadmium & thallium and their compounds (total) ²	0.1 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period [until 31/12/06]	Bi-annual	BS EN 14385
A1	Cadmium & thallium and their compounds (total) ²	0.05 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period [from 01/01/07]	Bi-annual	BS EN 14385
A1	Mercury and its compounds ²	0.1 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period [until 31/12/06]	Bi-annual	BS EN 13211
A1	Mercury and its compounds ²	0.05 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period [from 01/01/07]	Bi-annual	BS EN 13211
A1	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total) ²	1.0 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period [until 31/12/06]	Bi-annual	BS EN 14385
A1	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total) ²	0.5 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period [from 01/01/07]	Bi-annual	BS EN 14385
A1	Dioxins / furans (I-TEQ)	0.1 ng/m ³ periodic over minimum 6 hours, maximum 8 hour period ³	Bi-annual	BS EN 1948
A2	Particulate matter	30 mg/m ³ , periodic over minimum 1-hour period	Annually	BS EN 13284-1, or alternative method as agreed with the Agency

Note 1: See Section 6 for reference conditions

Note 2: Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or the sum of the metals as specified). Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V mean antimony, arsenic, lead, chromium, cobalt, copper, manganese, nickel and vanadium respectively.

Note 3: The I-TEQ sum of the equivalence factors to 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 than the detection limit assumed to be at the detection limit as a maximum.

Note 4: The Continuous Emission Monitors used shall be such that the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed 10%. 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 this value of the confidence interval (10%). Where it is necessary to calibrate or maintain the monitor and this means that data is not available for a complete half-hour period, the half-hourly average shall nonetheless be considered valid if measurements are available for a minimum of 20 minutes during the half-hour period. (The number of half-hourly averages so validated shall not exceed 5 per day). 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 will be considered valid if no more than five half-hourly average values in any day have been determined not to be valid. No more than ten daily average values per year shall be determined not to be valid.

Note 5: As Note 4, except that the value of the confidence interval is 20% in place of 10%.

Note 6: As Note 4, except that the value of the confidence interval is 30% in place of 10%.

Note 7: As Note 4, except that the value of the confidence interval is 40% in place of 10%.

Note 8: MCERTS certification to the appropriate ranges and determinands is a demonstration of compliance to the applicable standards.

Note 9: The certification range for MCERTS equipment should be 1.5 times the daily emission limit value. The CEM shall also be able to measure instantaneous values over the ranges that 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.

Note 10: 98% of the half hourly averages over the year should not exceed this limit.

Table 2.2.2 (a) : Emission limits to air and monitoring during abnormal operating conditions

Emission point reference	Parameter	Limit (including Reference Period) ¹	Monitoring frequency	Monitoring method
A1	Particulate matter	150 mg/m ³ , ½-hr average	Continuous measurement	BS EN 13284-2 ^{4 2} during abatement plant failure
A1	Total Organic Carbon (TOC)	20 mg/m ³ , ½-hr average	Continuous measurement	BS EN 12619 ^{4 2} during abatement plant failure
A1	Carbon monoxide	100 mg/m ³ , ½-hr average	Continuous measurement	ISO 12039 ^{4 3} during abatement plant failure

Note 1: See Section 6 for reference conditions

Note 2: The Continuous Emission Monitors used shall be such that the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed 30%. Valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods if no waste is being incinerated) from the measured values after having subtracted this value of the confidence interval (30%). Where it is necessary to calibrate or maintain the monitor and this means that data is not available for a complete half-hour period, the half-hourly average shall nonetheless be considered valid if measurements are available for a minimum of 20 minutes during the half-hour period. (The number of half-hourly averages so validated shall not exceed 5 per day).

Note 3: As Note 2, except that the value of the confidence interval is 10% in place of 30%.

Note 4: MCERTS certification to the appropriate ranges and determinands is a demonstration of compliance to the applicable standards.

2.2.1.4 No condition applies.

2.2.2 Emissions to water (other than groundwater), including heat, from specified points

2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.

2.2.2.2 Conditions 2.2.2.3 - 2.2.2.6 shall not apply to emissions to sewer.

2.2.2.3 No emission from the permitted installation shall be made to water.

2.2.2.4 No condition applies

2.2.2.5 No condition applies

2.2.2.6 No condition applies

Emissions to sewer

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.7 shall only arise from the source(s) specified in that Table.

Table 2.2.7 Emission points to sewer		
Emission point reference or description	Source	Sewer
S1 [Described on plan E48 in Application as 'V-notch and monitoring equipment.]	Effluent treatment plant	Wessex Water plc

2.2.2.8 No condition applies.

2.2.2.9 No condition applies.

2.2.2.10 No condition applies

2.2.3 Emissions to groundwater

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

2.2.4 Fugitive emissions of substances to air

2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- storage areas
- buildings
- pipes, valves and other transfer systems
- open surfaces

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5 Fugitive emissions of substances to water and sewer

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

2.2.6 Odour

2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6.2 No condition applies.

2.2.6.3 No condition applies

2.2.7 Emissions to Land

2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

2.2.7.2 No emission from the Permitted Installation shall be made to land.

2.2.7.3 No condition applies.

2.2.8 Other technical measures

2.2.8.1 No condition applies

2.3 Management

- 2.3.1 A copy of this Permit and those parts of the Application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

Training

- 2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.
- 2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

Maintenance

- 2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.
- 2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:
- 2.3.6.1 a written or electronic maintenance programme; and
 - 2.3.6.2 records of its maintenance.

Incidents and Complaints

- 2.3.7 The Operator shall maintain and implement written procedures for:
- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits; and
 - 2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
 - 2.3.7.3 ensuring that detailed records are made of all such actions and investigations.
- 2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.
- 2.3.9 No condition applies.

2.4 Efficient use of raw materials

- 2.4.1 The Operator shall -

- 2.4.1.1 maintain the raw materials table or description submitted in response to Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;
- 2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and
- 2.4.1.3 ensure that incoming water use is directly measured and recorded.

2.5 Waste Storage and Handling

- 2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on the Permitted Installation such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.
- 2.5.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.6 Waste recovery or disposal

- 2.6.1 Waste produced at the Permitted Installation shall be:
 - 2.6.1.1 recovered to no lesser extent than described in the Application; and
 - 2.6.1.2 where not recovered, disposed of while avoiding or reducing any impacts on the environment provided always that this is not done in any way that would have a greater effect on the environment than that described in the Application.
- 2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in response to Section 2.6 of the Application and in particular review the available options for waste recovery and disposal for the purposes of complying with condition 2.6.1 above.
- 2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.
- 2.6.4 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin and delivery date of any waste that is received for disposal or recovery at the Permitted Installation.
- 2.6.5 Bottom ash and APC residues shall not be mixed
- 2.6.6 Wastes produced at the Permitted Installation shall, as a minimum, be sampled and analysed in accordance with Table 2.6.1. Additional samples shall be taken and tested and appropriate action taken, whenever:

- disposal or recovery routes change; or
- it is suspected that the nature or composition of the waste has changed such that the route currently selected may no longer be appropriate.

Table 2.6.1 : Emission limits and monitoring frequency for solid residues

Emission point reference	Substance	Limit ¹	Monitoring frequency	Monitoring method
Bottom Ash	Loss On Ignition	5%	Quarterly	Agency ash sampling protocol [as adapted for this Installation following discussion with the Agency.]
Bottom Ash	Total Organic Carbon	3%	Quarterly	Agency ash sampling protocol [as adapted for this Installation following discussion with the Agency.]

Note 1: Compliance shall be taken as complete if either TOC or LOI meet the limit for that parameter.

2.7 Energy Efficiency

- 2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information required by condition 4.1.2.
- 2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.
- 2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Note as from time to time amended. Energy efficiency shall be secured in particular by:
- ensuring that the appropriate operating and maintenance systems are in place;
 - ensuring that all plant is adequately insulated to minimise energy loss or gain;
 - ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
 - employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
 - where building services constitute more than 5% of the total energy consumption of the Installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Note H2; and
 - maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.

2.8 Accident prevention and control

- 2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section 2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

2.9 Noise and Vibration

2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:

- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric,

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.9.2 No condition applies.

2.9.3 No condition applies.

2.10 On-site Monitoring

2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.2, 2.2.2(a) and 2.2.8, unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.

2.10.2 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in Tables 2.2.2 and 2.2.2a, the Operator shall perform a QAL2 test as specified in BS EN 14181 at least every three years and when there are significant changes to either the process, the fuel used or to the CEMs themselves.

2.10.3 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in Tables 2.2.2 and 2.2.2a, the Operator shall perform an Annual Surveillance Test (AST) at least annually, as specified within BS EN 14181.

2.10.4 The Operator shall undertake environmental or other specified substance monitoring to the frequencies and methods described in Table 2.10.1

Table 2.10.1 : Other monitoring requirements

Emission point reference/source/ description of measurement point	Substance or parameter	Monitoring frequency	Monitoring method
A1	Temperature	Continuous	As described in Application
A1	Pressure	Continuous [from 28/12/05]	As described in Application
A1	Oxygen content	Continuous	As described in Application
A1	Water vapour content	Continuous	As described in Application
A1	Dioxin-like PCBs (WHO-TEQ ¹ Humans / Mammals)	Bi-annual periodic measurement ² , average value over sample period of	To be determined utilising sampling and analytical techniques developed for

Table 2.10.1 : Other monitoring requirements

Emission point reference/source/ description of measurement point	Substance or parameter	Monitoring frequency	Monitoring method
		6-8 hours.	dioxins/furans (BS EN 1948)
A1	Dioxin-like PCBs (WHO-TEQ ¹ Fish)	Bi-annual periodic measurement ² , average value over sample period of 6-8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)
A1	Dioxin-like PCBs (WHO-TEQ ¹ Birds)	Bi-annual periodic measurement ² , average value over sample period of 6-8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)
A1	Poly-cyclic aromatic hydrocarbons (PAHs)	Bi-annual periodic measurement ² , average value over sample period of 6 - 8 hours.	Procedure shall use BS ISO 11338-1 / BS-ISO 11338-2.
A1	Dioxins / furans (WHO-TEQ Humans / Mammals) ¹	Bi-annual periodic measurement ² , average value over sample period of 6-8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)
A1	Dioxins / furans (WHO-TEQ Fish) ¹	Bi-annual periodic measurement ² , average value over sample period of 6-8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)
A1	Dioxins / furans (WHO-TEQ Birds) ¹	Bi-annual periodic measurement ² , average value over sample period of 6-8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)
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.	Quarterly	Sampling and analysis as per Agency ash sampling protocol.
Bottom Ash	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	Before use of a new disposal or recycling route	Sampling and analysis as per Agency ash sampling protocol.
APC Residues	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their	Quarterly	Sampling and analysis as per Agency ash sampling protocol.

Table 2.10.1 : Other monitoring requirements

Emission point reference/source/ description of measurement point	Substance or parameter	Monitoring frequency	Monitoring method
	compounds, dioxins/furans and dioxin-like PCBs.		
APC Residues	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	Before use of a new disposal or recycling route	Sampling and analysis as per Agency ash sampling protocol.
Adjacent to combustion chamber inner wall	Temperature (° C)	Continuous	Traceable to National Standards

Note 1: TEQ sum of the equivalence factors to 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 than the detection limit assumed to be at the detection limit as a maximum.

Note 2: Quarterly in first year of operation

- 2.10.5 The Operator shall carry out monitoring of the process variables listed in Table 2.10.1 to the frequencies and methods described in that Table.
- 2.10.6 No condition applies.
- 2.10.7 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/ or spot sampling, where such notification has been requested in writing by the Agency.
- 2.10.8 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.
- 2.10.9 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit and the environmental or other monitoring specified in condition 2.10.4 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing. 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 Table 2.2.2. 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.
- 2.10.10 There shall be provided:
- 2.10.10.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and

2.10.10.2 safe means of access to other sampling/monitoring points when required by the Agency.

2.10.11. The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.8, unless otherwise agreed in writing by the Agency.

2.10.12. No condition applies.

2.11 Closure and Decommissioning

2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-

2.11.1.1 attention to the design of new plant or equipment;

2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and

2.11.1.3 the maintenance of a site closure plan to demonstrate that the Installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.

2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.

2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.

2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

2.12 Multiple Operator installations

2.12.1 This is not a multi-Operator installation

2.13 Transfer to effluent treatment plant

2.13.1 No transfers to effluent treatment plant are controlled under this part of this Permit.

2.13.2 No condition applies.

3 Records

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 3.1.1 be made available for inspection by the Agency at any reasonable time;
 - 3.1.2 be supplied to the Agency on demand and without charge;
 - 3.1.3 be legible;
 - 3.1.4 be made as soon as reasonably practicable;
 - 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;
 - 3.1.6 be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and
 - 3.1.7 where they concern the condition of the site of the Installation or are related to the implementation of the Site Protection and Monitoring Programme, be kept at the Permitted Installation, or other location agreed by the Agency in writing, until all parts of the Permit have been surrendered.

4 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this Permit, as follows:-
- 4.1.2.1 in respect of the parameters and emission points specified in Table S2 to Schedule 2;
 - 4.1.2.2 for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
 - 4.1.2.3 giving the information from such results and assessments as may be required by the forms specified in those Tables; and
 - 4.1.2.4 to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1 and S4.2 of Schedule 4, assessed at any frequency specified therein, and using the form specified in Table S3 to Schedule 3.
- 4.1.4 No condition applies.
- 4.1.5 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.6 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.7 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the Installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 4.1.8 The Operator shall, within two months of the date of this Permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under this condition, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within 1 month of the review or change.
- 4.1.9 No condition applies.

5 Notifications

- 5.1.1 The Operator shall notify the Agency **without delay** of:-
- 5.1.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
 - 5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution;
 - 5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution;
 - 5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution; and
 - 5.1.1.5 any incident which has led to a period of abnormal operation of incineration or co-incineration plant, as defined in section 6.1.1.
 - 5.1.1.6 each operation of the emergency vent when waste is feeding. The report shall include the reasons for operation of the emergency vent, and the measures taken to prevent recurrence.
- 5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:-
- 5.1.2.1 for notifications under conditions 5.1.1.1 – 5.1.1.4, the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
 - 5.1.2.2 for notifications under conditions 5.1.1.1 – 5.1.1.4, the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;
 - 5.1.2.3 for notifications under condition 5.1.1.5, the information listed in Part C of Schedule 1 as soon as practicable thereafter;
- and such information shall be in accordance with that Schedule.
- 5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-
- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
 - 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
 - 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.
- 5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application or to that in the Site Protection and Monitoring Programme submitted under condition 4.1.8 of this Permit.
- 5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:-
- 5.1.5.1 where the Operator is a registered company:-
 - 2 any change in the Operator's trading name, registered name or registered office address;
 - 3 any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)

- 4 any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
- 5.1.5.2 where the Operator is a corporate body other than a registered company:
 - 5 any change in the Operator's name or address;
 - 6 any steps taken with a view to the dissolution of the Operator.
- 5.1.5.3 In any other case: -
 - 7 the death of any of the named Operators (where the Operator consists of more than one named individual);
 - 8 any change in the Operator's name(s) or address(es);
 - 9 any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;
- 5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-
 - 5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.
 - 5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.
 - 5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.
- 5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-
 - 5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.
 - 5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.

6 Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:-

“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 concentrations in the discharges into air and the purified waste water of the regulated substances may exceed the normal emission limit values.

“Annual release” means the total release during any calendar year commencing 1 January

“APC residues” means air pollution control residues

“Application” means the application for this Permit, together with any response to a notice served under Schedule 4 to the PPC Regulations and any other information formally accepted by the Agency as being part of the Application

“background concentration” means such concentration of that substance as is present in:

- 10 water supplied to the site; or
- 11 where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- 12 where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

“BAT” means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: “available techniques” means “those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the Operator”; “best” means “in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole” and “techniques” “includes both the technology used and the way in which the Installation is designed, built, maintained, operated and decommissioned.”. In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

“Bi-annual” means twice per year with at least five months between tests;

“Bottom Ash” means ash falling through the grate or transported by the grate;

“CEM” means Continuous emission monitor

“CEN” means Comité Européen de Normalisation

“Commissioning” relates to the period after construction has been completed or when a modification has been made to the plant or the raw materials when the Permitted Installation process is being tested and modified to operate according to its design;

“Controlled waters” shall have the same meaning as in Part III of the Water Resources Act 1991;

“Daily average” for releases of substances to air means the average of half-hourly averages over a calendar day during normal operation. Where any of abnormal operation, start-up or shut-down occur during the day in such a way that there are less than 43 half-hourly averages recorded during normal operation, no daily average shall be recorded for that day.

“*Dioxin and Furans*” means polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans.

“*ELV*” means emission limit value.

“*Fugitive emission*” means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.

“*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.

“*Infectious clinical waste*” means clinical waste incorporating substances containing viable micro-organisms or their toxins which are known or reliably believed to cause disease in man or other living organisms

“*ISO*” means International Standards Organisation.

“*Land Protection Guidance*” means the version of the Agency guidance note “H7 - *Guidance on the Protection of Land under the PPC Regime: Application Site Report and Site Protection and Monitoring Programme*”, including its appended templates for data reporting, which is current at the time of issue of the Permit.

“ $L_{Aeq,T}$ ” means the equivalent continuous A-weighted sound pressure level in dB determined over time period, T.

“ $L_{A90,T}$ ” means the A-weighted sound pressure level in dB exceeded for 90% of the time period, T.

“ L_{AFmax} ” means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

“*MCERTS*” means the Environment Agency’s Monitoring Certification Scheme.

“*Monitoring*” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

“*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 condition 6.1.5

“*Permitted Installation*” means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

“*PPC Regulations*” means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

“ PM_{10} , $PM_{2.5}$, $PM_{1.0}$ ” mean respectively those particulates which have mean particle diameters of 10, 2.5 and 1.0 microns (μm)

“*Quarterly*” for reporting/sampling means after/during each 3 month period, January to March; April to June; July to September and October to December and, when sampling, with at least 2 months between each sampling date.

“*Sewer*” means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

“*Shutdown*” is any period where the plant is being returned to a non-operational state and there is no waste being burned.

“*Staff*” includes employees, directors or other officers of the Operator, and any other person under the Operator’s direct or indirect control, including contractors.

“*Start-up*” is any period, where the plant has been non-operational, after igniting the auxiliary burner until waste has been fed to the incinerator to initiate steady-state conditions as described in the Application.

“*Waste Incineration Directive*” means Directive 2000/76/EC on the incineration of waste (O.J. L 332, 28.12.2000)

“*Waste oil*” has the same meaning as in Directive 75/439/EEC

“*WHO*” means the World Health Organisation

“*Year*” means calendar year ending 31 December.

6.1.2 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.

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

6.1.3.1 in relation to gases from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels (including waste oil), 6% dry for solid fuels; and/or

6.1.3.2 in relation to gases from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

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

6.1.3.4 where hazardous wastes are burned in an incineration or co-incineration plant and the emissions of pollutants are reduced by gas treatment, standardisation of the gas with respect to oxygen content shall be carried out only if the oxygen concentration measured over the same period exceeds the relevant oxygen content defined in conditions 6.1.3.1 – 6.1.3.3 above. In other cases, the measured emissions shall be standardised only for moisture, pressure and temperature.

6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

6.1.5 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.

TEF schemes for dioxins and furans				
Congener	I-TEF(1990)	WHO-TEF (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
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.001	<0.001
OCDD	0.001	0.0001	-	-
Furans				
2,3,7,8-TCDF	0.1	0.1	0.05	1
1,2,3,7,8-PeCDF	0.05	0.05	0.05	0.1
2,3,4,7,8-PeCDF	0.5	0.5	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	0.0001	0.0001	0.0001

TEF schemes for dioxin-like PCBs			
Congener	WHO-TEF (1997/8)		
	Humans / mammals	Fish	Birds
Non-ortho PCBs			
3,4,4',5-TCB (81)	0.0001	0.0005	0.1
3,3',4,4'-TCB (77)	0.0001	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)	0.01	0.00005	0.001
Mono-ortho PCBs			
2,3,3',4,4'-PeCB (105)	0.0001	<0.000005	0.0001
2,3,4,4',5-PeCB (114)	0.0005	<0.000005	0.0001
2,3',4,4',5-PeCB (118)	0.0001	<0.000005	0.00001
2',3,4,4',5-PeCB (123)	0.0001	<0.000005	0.00001
2,3,3',4,4',5-HxCB (156)	0.0005	<0.000005	0.0001
2,3,3',4,4',5'-HxCB (157)	0.0005	<0.000005	0.0001
2,3',4,4',5,5'-HxCB (167)	0.00001	<0.000005	0.00001
2,3,3',4,4',5,5'-HpCB (189)	0.0001	<0.000005	0.00001

Schedule 1 - Notification of abnormal emissions (including abnormal operations)

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit. 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 PPC Regulations.

Part A

Permit Number	
Name of Operator	
Location of Installation	
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place

Measures taken, or intended to be taken, to stop the emission	
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Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the Installation in the preceding 24 months.	

Part C

Permit Number	
Name of Operator	
Location of Installation	

For multi-line plants, indicate which line(s) was (were) subject to abnormal operation.								
Time at which abnormal operation commenced								
Time at which abnormal operation ceased								
Duration of this incidence of abnormal operation								
Cumulative abnormal operation duration in current year (at end of present incidence)								
Reasons for abnormal operation								
How did the abnormal operation end? (e.g. plant repaired, reaching maximum permitted duration, initiation of shutdown, etc.)								
Where the abnormal operation was caused by the failure of the particulate, CO or TOC CEM, attach a copy of the alternate monitoring data which was used to demonstrate compliance with the abnormal operation emission limit values.								
Where abatement plant has failed, give the half-hourly average emissions for pollutants of relevance during the abnormal operation in the rows below								
Pollutant	1 st ½ hour	2 nd ½ hour	3 rd ½ hour	4 th ½ hour	5 th ½ hour	6 th ½ hour	7 th ½ hour	8 th ½ hour

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of pack2pack UK Limited

Schedule 2 - Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

Table S2: Reporting of monitoring data			
Parameter	Emission point	Reporting period	Period begins
Particulate matter, mg/m ³ [continuous] ¹	A1	Monthly	01/12/05
Total Organic Carbon, mg/m ³ (TOC) [continuous] ²	A1	Monthly	01/12/05
Hydrogen chloride, mg/m ³ [continuous] ³	A1	Monthly	01/12/05
Carbon monoxide, mg/m ³ [continuous] ⁴	A1	Monthly	01/12/05
Sulphur dioxide, mg/m ³ [continuous] ⁵	A1	Monthly	01/12/05
Oxides of nitrogen, mg/m ³ (NO and NO ₂ expressed as NO ₂) [continuous] ^{6,7}	A1	Monthly	Begins on completion of IC1
Particulate matter, mg/m ³	A1	Every 12 months	01/01/06
Total Organic Carbon, mg/m ³ (TOC)	A1	Every 12 months	01/01/06
Hydrogen chloride, mg/m ³	A1	Every 12 months	01/01/06
Carbon monoxide, mg/m ³	A1	Every 12 months	01/01/06
Sulphur dioxide, mg/m ³	A1	Every 12 months	01/01/06
Hydrogen fluoride, mg/m ³	A1	Every 6 months	01/01/06
Oxides of nitrogen, mg/m ³ (NO and NO ₂ expressed as NO ₂)	A1	Every 12 months	01/01/06
Cadmium & thallium and their compounds, mg/m ³ (total)	A1	Every 6 months	01/01/06
Mercury and its compounds, mg/m ³	A1	Every 6 months	01/01/06
Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds, mg/m ³ (total)	A1	Every 6 months	01/01/06
Dioxin-like PCBs, ug/m ³ (WHO-TEQ Humans / Mammals)	A1	Every 6 months	01/01/06
Dioxin-like PCBs, ug/m ³ (WHO-TEQ Fish)	A1	Every 6 months	01/01/06
Dioxin-like PCBs, ug/m ³ (WHO-TEQ Birds)	A1	Every 6 months	01/01/06
Poly-cyclic aromatic hydrocarbons, ug/m ³ (PAHs)	A1	Every 6 months	01/01/06
Dioxins / furans, ug/m ³ (WHO-TEQ Humans / Mammals)	A1	Every 6 months	01/01/06
Dioxins / furans, ug/m ³ (WHO-TEQ Fish)	A1	Every 6 months	01/01/06
Dioxins / furans, ug/m ³ (WHO-TEQ Birds)	A1	Every 6 months	01/01/06
Dioxins / furans (I-TEQ)	A1	Every 6 months.	01/01/06
Particulates, mg/m ³	A2	Every 12 months	01/01/06
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds (mg/m ³), dioxins/furans and dioxin-like PCBs (ug/m ³)	Bottom Ash	Every 3 months	01/01/06
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions (mg/m ³).	Bottom Ash	Within one month of sample	Before use of a new disposal or recycling route
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt,	APC Residues	Every 3 months	01/01/06

Table S2: Reporting of monitoring data			
Parameter	Emission point	Reporting period	Period begins
Vanadium, Zinc) and their compounds (mg/m ³), dioxins/furans and dioxin-like PCBs (ug/m ³)			
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions (mg/m ³)	APC Residues	Within one month of sample	Before use of a new disposal or recycling route
Water usage, m ³	Installation	Every 12 months	01/01/06
Energy usage, MW	Installation	Every 12 months	01/01/06
Waste disposal and/or recovery, tonnes	Installation	Every 12 months	01/01/06

Note 1: To be reported in accordance with reporting form A3

Note 2: To be reported in accordance with reporting form A4

Note 3: To be reported in accordance with reporting form A5

Note 4: To be reported in accordance with reporting form A6

Note 5: To be reported in accordance with reporting form A7

Note 6: To be reported in accordance with reporting form A8

Note 7: Continuous monitoring for NO_x is not required until completion of IC1. The deadline for this is the 28/12/05.

Schedule 3 - Forms to be used

Table S3: Reporting Forms		
Media or parameter	Form Number	Date of Form
Air: Periodic monitored emissions annually	A1/QP3638UP	31/05/07
Air: Periodic monitored emissions biannually	A2/ QP3638UP	31/05/07
Air: Continuously monitored emissions of particulates	A3/ QP3638UP	31/05/07
Air: Continuously monitored emissions of TOC	A4/ QP3638UP	31/05/07
Air: Continuously monitored emissions of Gaseous chlorides as HCl	A5/ QP3638UP	31/05/07
Air: Continuously monitored emissions of Carbon monoxide	A6/ QP3638UP	31/05/07
Air: Continuously monitored emissions of Sulphur dioxide	A7/ QP3638UP	31/05/07
Air: Continuously monitored emissions of Oxides of nitrogen	A8/ QP3638UP	31/05/07
Bottom Ash, APC Residues	Ash1/ QP3638UP	31/05/07
Bottom Ash, APC Residues	Ash2/ QP3638UP	31/05/07
Energy	E1/ QP3638UP	31/05/07
Waste Return	R1/ QP3638UP	31/05/07
Water usage	WU1/ QP3638UP	31/05/07
Performance indicators	PI1/ QP3638UP	31/05/07

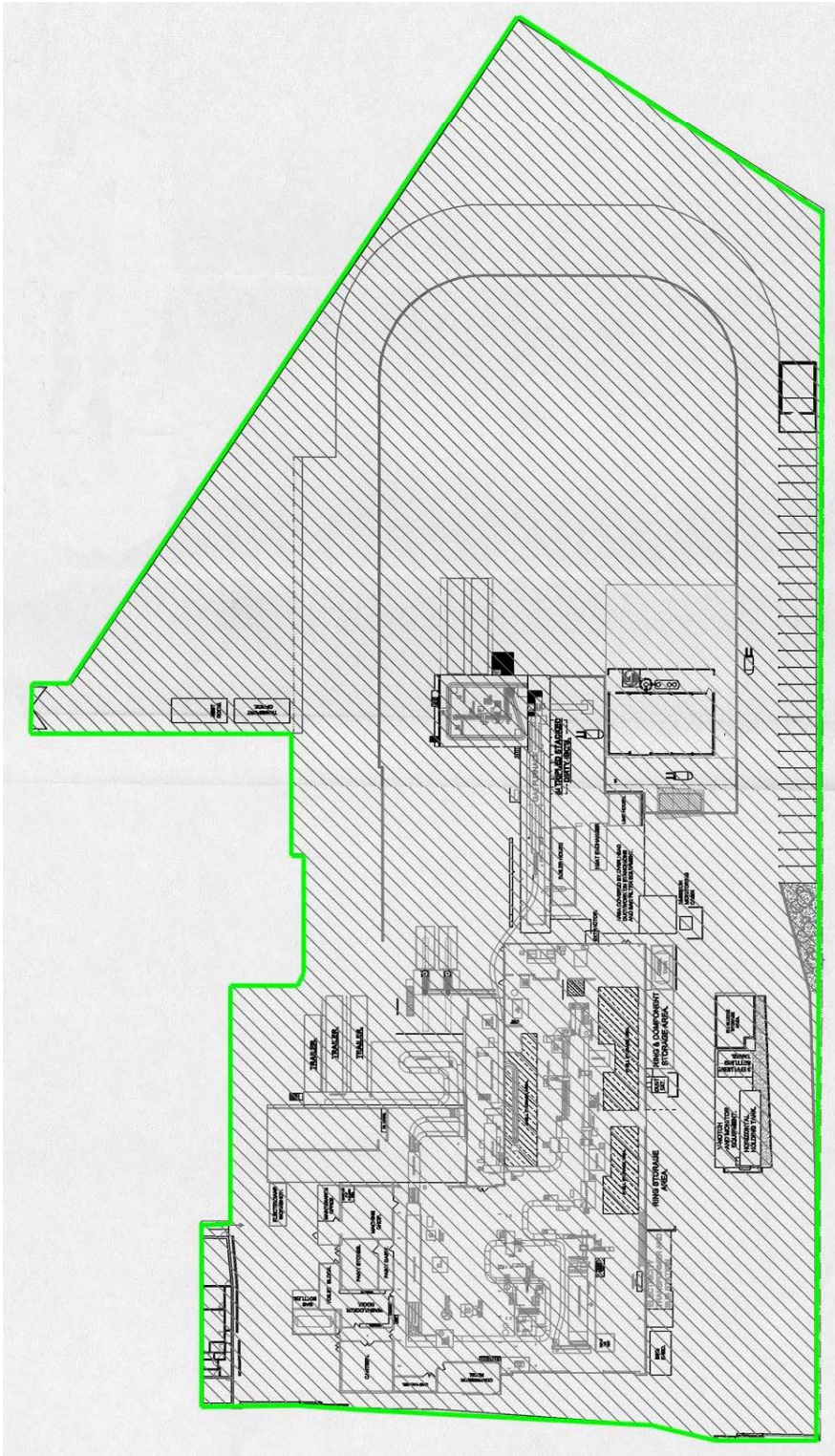
Schedule 4 - Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Agency.

Table S4.1: Annual Production/Treatment	
Drums incinerated	tonnes

Table S4.2: Performance parameters		
Parameter	Frequency of assessment	Performance indicator
Mass of Bottom Ash produced	Quarterly	kg/ tonne of waste incinerated (dry basis)
Mass of APC residues produced	Quarterly	kg/ tonne of waste incinerated (dry basis)
Activated Carbon consumption	Quarterly	kg/ tonne of waste incinerated (dry basis)
Lime consumption	Quarterly	kg/ tonne of waste incinerated (dry basis)

Schedule 5 - Site Plan



Schedule 6 - List of Permitted Wastes

Permitted Waste Types		
Description	European Waste Catalogue Number (where available) or other specification	Waste type as defined in Table 2.1.2
Waste Packaging; Absorbents, wiping cloths, filter materials, and protective clothing not otherwise specified - Packaging containing residues of or containing dangerous substances	15 01 10	Emptied 45 gallon steel drums

END OF PERMIT