

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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Blue Phoenix Limited  
Cleveland IBA Facility  
Haverton Hill Road  
Billingham  
Cleveland  
TS23 1PY

**Variation application number**

EPR/TP3438EG/V005

**Permit number**

EPR/TP3438EG

# Cleveland IBA Facility

## Permit number EPR/TP3438EG

### Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

#### **Changes introduced by this variation notice:**

This variation has been issued to update the permit following a statutory review of the permits in the industry sector for treatment of incinerator bottom ash.

The Industrial Emissions Directive (IED) came into force on 7th January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) conclusions as described in the Commission Implementing Decision. The BAT conclusions for incineration were published on 03 December 2019 in the Official Journal of the European Union (L323) following a European Union wide review of BAT, implementing decision 2017/2117/EU of 21 November 2017.

The main features of the permit are as follows.

The environmental permit allows the operation of an Incinerator Bottom Ash recovery facility. The installation activity accepts and treats Incinerator Bottom Ash (IBA) to recover ferrous and non-ferrous metal and to produce an Incinerator Bottom Ash Aggregate (IBAA). The facility is permitted to accept up to 250,000 tonnes of IBA per year.

Site activities are as follows:

- S5.4 A(1) (b) (iii) - Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes.
- Storage of waste prior to treatment.
- Storage of waste following treatment
- Process water collection and storage for re-use on site or discharge
- Raw material storage
- Blending of IBAA with non-waste materials

#### Incinerator Bottom Ash Treatment

The IBA is received and stored at the site until the Energy from Waste (EFW) operators provide confirmation to demonstrate that the IBA is non-hazardous in nature. Unprocessed IBA is tipped and stored in windrows outside. The stocks of IBA that are waiting for the classification results are stockpiled in one batch, originating from the 4 incinerator lines.

The IBA is processed within an enclosed building comprising vibrating screens and magnetic separation to remove the ferrous and non-ferrous metals and to produce IBA fractions, coarse (14mm-40mm) and fines (<14mm). IBA is blended with aggregate to produce IBAA which meets the relevant standard for the end-use. IBAA is stored externally prior to removal from site. The treatment and storage areas are impermeable with a sealed drainage system.

IBA is stored and treated on an impermeable surface with sealed drainage. Waste waters generated on site are captured in a storage lagoon where they are utilised for dust suppression. If excess water needs

removing from site this is done via tanker. There are no channelled emissions to air, sewer or water from the installation.

Dust emissions on site are controlled by the utilisation of a dust suppression system, housekeeping measures to limit dust generated from traffic movements, and equipment maintenance. If dust suppression is unavailable processing will stop. IBA is received onto site with a moisture content around 20%. This also limits fugitive emissions of dust.

The facility is located at Haverton Hill Road, Teesside EFW, Billingham. The centre of the Installation is approximately at National Grid Reference NZ4811522406. The nearest residential housing is at Limetrees Close approx. 800m east of the site boundary. The site is approximately 350 from the Teesmouth and Cleveland SSSI and SPA.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/TP3438EG/A001 received	Duly made 23/12/13	Application for an incinerator bottom ash (IBA) treatment facility.
Additional information received	24/01/14, 0/02/14, 03/03/14	
Permit determined EPR/TP3438EG	05/03/14	Permit issued to Ballast Phoenix Limited.
Application EPR/TP3438EG/V002 received	Duly made 30/07/15	Application to vary the permit to allow the external screening of processed IBA using a mobile screen plant.
Additional information received	18/09/15	Response to Schedule 5 notice dated 28/08/15.
Variation determined EPR/TP3438EG	21/10/15	Varied permit issued.
Application EPR/TP3438EG/V003 received	Duly made 29/07/16	Application to vary the permit to add EWC code 19 12 12 Incinerator bottom ash aggregate (IBAA), as an accepted waste type.
Additional information received	25/08/16	Confirmation of operating techniques relating to addition of new waste code.
Variation determined EPR/TP3438EG	20/09/16	Varied permit issued.
Notified of change of Company Name	26/01/2020	Company name changed to Blue Phoenix Limited
Environment Agency Non-hazardous Waste Sector Review Variation Number EPR/TP3438EG/V005 (variation and consolidation)	15/03/24	Regulation 61 Notice requiring information for Statutory review of the permit against Waste Incineration BAT Conclusions published 12 December 2019 - documents received in response to the Regulation 61 Notice dated 14/04/23.
Regulation 61 notice – additional information request	09/01/24	Documents titled: “Regulation 61 Notice - Request for Further Information Cleveland TP3438EGV005.” Drawings: “Cleveland Storage Volumes” “Current Cleveland- Dust Monitoring Locations”

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Variation issued EPR/TP3438EG	03/03/2025	Varied and consolidated permit issued in modern format

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

### Permit number

EPR/TP3438EG

### Issued to

**Blue Phoenix Limited** (“the operator”)

whose registered office is

**1 Victoria Stables**

**Essex Way**

**Bourne**

**Lincolnshire**

**PE10 9JZ**

company registration number 03290431

to operate a regulated facility at

**Cleveland IBA Facility**

**Haverton Hill Road**

**Billingham**

**Cleveland**

**TS23 1PY**

to the extent set out in the schedules.

The notice shall take effect from 03/03/2025

Name	Date
Peter Maksymiw	03/03/2025

Authorised on behalf of the Environment Agency

## Schedule 1

The following conditions and tables have been added/varied/deleted as a result of the Environment Agency Initiated Variation:

Conditions	Amendment
Condition 1.1.4	Added in line with modern template.
Condition 1.5	Multi-operator permit condition removed.
Condition 2.3.3	Added in line with modern template.
Condition 2.3.5	Condition removed as not relevant to the site's operations. Subsequent conditions re-numbered.
Condition 2.5	Pre-operational conditions removed.
Condition 3.1.1	Condition amended to reflect that there are no point source emissions.
Condition 3.5	Monitoring conditions added alongside ambient air and process monitoring requirements.
Condition 3.6	Pest conditions added in line with modern template.
Table S1.1 as referenced in condition 2.1.1	Activities table updated in-line with modern standards and current site activities.
Table S1.2 as referenced in condition 2.3.1	Operating techniques updated with documents received in response to the regulation 61 review.
Table S1.3 as referenced in condition 2.4	Improvement conditions added.
Table S2.1 as referenced in condition 2.3.3	Raw materials table added.
Table S2.2 as reference in condition 2.3.4	List of waste table updated.
Tables S3.1 as referenced in condition 3.5.1	Process monitoring added in line with modern template.
Table S3.2 as referenced in condition 3.5.1	Ambient air monitoring added in line with modern template.
Table S4.1 as referenced in condition 4.2.3	Reporting added in line with the required monitoring.

Table S4.2 as referenced in condition 4.2.2	Annual treatment and production reporting updated in line with the modern template.
Table S4.4 as referenced in condition 4.2.3	Reporting forms updated.
Schedule 5	Updated in line with modern template.
Schedule 6	Interpretations updated.
Schedule 7	New site plan

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/TP3438EG**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/TP3438EG/V005 authorising,

**Blue Phoenix Limited** (“the operator”)

whose registered office is

**1 Victoria Stables**

**Essex Way**

**Bourne**

**Lincolnshire**

**PE10 9JZ**

company registration number 03290431

to operate an installation at

**Cleveland IBA Facility**

**Haverton Hill Road**

**Billingham**

**Cleveland**

**TS23 1PY**

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

Name	Date
Peter Maksymiw	03/03/2025

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.

1.1.4 The operator shall comply with the requirements of an approved competence scheme

### 1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that 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.

### 1.3 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;
- (c) 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, which is within the area edged in red on the site plan that represents the extent of the installation covered by this permit and that/those of (the) other operator(s) of the installation.

### **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 or other documentation (“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(s) S2.2
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 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.

### **2.4 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.

### **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.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

#### **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.

#### **3.3 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) process monitoring specified in table S3.1;
- (b) ambient air monitoring specified in table S3.2;

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), where available, unless otherwise agreed in writing by the Environment Agency.

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.

### **3.6 Pests**

3.6.1 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.

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 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 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.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) 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 of them being in a partnership, dissolving the partnership.

4.3.4 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.

4.3.5 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 "without delay", in which case it may be provided by telephone.

# Schedule 1 – Operations

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
AR1	S5.4 Part A(1) (b) (iii) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes.	R4: Recycling/reclamation of metals and metal compounds  R5: Recycling/reclamation of other inorganic materials	From receipt of permitted waste IBA through to treatment.  Treatment of IBA in an enclosed building/enclosure using a combination of a trommel, vibrating screens and magnetic separators.  Treatment shall take place on an impermeable surface with sealed drainage.  There shall be no channelled emissions or discharges to air, water or sewer from this activity.  Waste types as specified in Table S2.2.
<b>Directly Associated Activity</b>			
AR2	N/A	Storage of IBA prior to treatment  R13: Storage of waste pending the operations numbered R1, R4 and R5 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt of waste (IBA) to transfer to treatment process.  From receipt of waste (IBAA) to transfer to treatment process.  Storage shall take place on an impermeable surface with sealed drainage system.  The combined maximum quantity of IBA, IBAA, ferrous and non-ferrous metal stored on site at any one time is limited to 107,507 tonnes.  No waste shall be stored for more than 12 months.  There shall be no channelled emissions or discharges to air, water or sewer from this activity.  Waste types as specified in Table S2.2.
AR3	N/A	Storage of wastes recovered from the IBA treatment processes	From recovery of waste to despatch off-site for use.

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
		R13: Storage of waste pending the operations numbered R1, R4 and R5 (excluding temporary storage, pending collection, on the site where it is produced)	Storage of processed IBAA, ferrous and non-ferrous metals after treatment.  The combined maximum quantity of IBA, IBAA, ferrous and non-ferrous metal stored on site at any one time is limited to 107,507 tonnes.  Storage shall take place on an impermeable surface with a sealed drainage system.  There shall be no channelled discharges to air, water or sewer from this activity.
AR4	N/A	Blending of IBAA fractions with aggregate  R5: Recycling/reclamation of other inorganic materials	Treatment consisting of blending of IBAA fractions, with aggregates.  There shall be no channelled discharges to air, water or sewer from this activity.  Treatment shall take place on an impermeable surface with sealed drainage.
AR5	N/A	Process water collection and storage  Collection and storage of process water comprising site surface water run-off from operational areas.	From the collection of process water to re-use within the facility or despatch off site-via tanker.  There shall be no channelled discharges to water or sewer from this activity.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	Section 3 of the application form C3.	23/12/13
Application	Dust management plan.	23/12/13
Additional information	Appropriate measures for inspections and maintenance (email).	20/02/14
Variation EPR/TP3438EG/V002	Mobile plant specification, Accident Management plan, response to SGN 5.06, revised dust management plan.	30/07/15
Response to Schedule 5 Notice dated 28/08/15	Response to questions in relation to Best Available Techniques (BAT) and management of fugitive emissions.	18/09/15



Table S1.2 Operating techniques		
Description	Parts	Date Received
Application additional information	Response to questions in relation to management of the incinerator bottom ash aggregate.	25/08/16
Response to regulation 61 notice EPR/TP3438EG/V005	Documents titled: <i>"BPUK Cleveland 220220 BATC returns spreadsheet V1.5 IBA BA AMs BPL responses"</i> <i>"BPL QMS P002 Storage and Handling of IBA-IBAA"</i> <i>"BPL EMS P005 Waste Acceptance Criteria needs all sites storage capacity adding"</i> <i>"Cleveland Process flow"</i> Drawings: <i>"Cleveland Site Drainage Plan"</i>	15/03/24
Response to regulation 61 notice EPR/TP3438EG/V005 - Additional information received in response to the Request for Further Information (RFI) dated 09/01/25	Documents titled: <i>"Regulation 61 Notice - Request for Further Information Cleveland TP3438EGV005."</i> Drawings: <i>"Cleveland Storage Volumes"</i> <i>"Current Cleveland- Dust Monitoring Locations"</i>	20/01/25

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The operator shall undertake a review of the site surfacing and drainage systems for all areas where waste storage and treatment are taking place. The review shall ascertain the state, design and construction standard of impermeable surfaces and sealed drainage systems on site to confirm that they are in line with, or equivalent to the standards required in CIRIA Report C736.</p> <p>The report of the review shall be certified by a suitably qualified engineer and submitted to the Environment Agency for approval together with details of any improvements.</p>	03/09/25
IC2	Following the completion of IC1, the operator shall implement any improvements by the deadline specified in this improvement condition unless otherwise agreed in writing with the Environment Agency.	03/03/26
IC3	<p>The operator shall carry out a detailed review of the existing waste treatment, storage and handling equipment at the site to ensure that they are in accordance with the requirements specified in the <u>Non-hazardous and inert waste: appropriate measures for permitted facilities</u> guidance and BAT 24 of the <u>Waste Incineration BAT Conclusions</u>.</p> <p>This review shall include but not be limited to an assessment of:</p> <ul style="list-style-type: none"> <li>• Stockpile protection.</li> <li>• Discharge height of conveyors.</li> </ul> <p>Following the review, the operator shall submit a written report to the Environment Agency for approval outlining the results of the review and measures and procedures that are in place to prevent fugitive emissions of dust.</p>	03/09/25

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
	The report shall include recommendations for improvements and installation of new infrastructure, including timescales for implementation of the identified improvements.	
IC4	Following the completion of IC3, the operator shall implement any improvements by the deadline specified in this improvement condition unless otherwise agreed in writing with the Environment Agency.	03/03/26
IC5	<p>The operator shall submit a revised Dust Management Plan (DMP) to the Environment Agency for approval.</p> <p>The revised plan shall include an assessment of the risk of dust pollution associated with the permitted site operations and a proposal for optimum moisture ranges and details of the moisture monitoring method and frequency for the IBA and IBAA. The monitoring methods may include for example, the use of moisture probes or dry/wet analysis or any other alternative methods that are suitable for establishing the optimum moisture range for effective dust emission control.</p> <p>The plan shall take into account the appropriate measures for dust control specified in the <u>Non-hazardous and inert waste: appropriate measures for permitted facilities</u> guidance and <u>Control and monitor emissions for your environmental permit</u>.</p> <p>Once the DMP is approved by the Environment Agency, the operator shall carry out site operations in accordance with the approved DMP, and any subsequent revisions agreed in writing by the Environment Agency.</p>	03/03/26

## Schedule 2 – Waste types, raw materials and fuels

Raw materials and fuel description	Specification
Fuel oil	Sulphur content not exceeding 0.1% by mass.

Maximum quantity	IBA produced by the SITA Teeside Energy-from-Waste facility within the installation. IBA and IBAA imported from offsite; for storage and recovery, totalling a maximum of 250,000 tones per year.
Waste code	Description
<b>19</b>	<b>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</b>
<b>19 01</b>	<b>wastes from incineration or pyrolysis of waste</b>
19 01 12	bottom ash and slag other than those mentioned in 19 01 11 (including IBA which has undergone basic screening at the incinerator e.g. to remove oversize material or ferrous metals with an over-band magnet)
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 – incinerator bottom ash aggregate (IBAA) only

## Schedule 3 – Emissions and monitoring

Table S3.1 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
At the IBA and IBAA waste stockpiles	Moisture content	As agreed under the dust emissions management plan required by Improvement Condition 3	As agreed under the dust emissions management plan required by Improvement Condition 3	

Table S3.2 Ambient air monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
At the identified monitoring locations shown in plan "Current Cleveland- Dust Monitoring Locations"	Deposited dust	Monthly	<a href="#">Monitoring emissions to air, land and water (MCERTS) - GOV.UK (Technical guidance notes for monitoring ambient air.)</a>	Monitoring methods, trigger levels and actions as specified in dust emissions management plan
	Visual dust checks	Daily		

## Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Process monitoring (moisture Content) parameters as required by condition 3.5	At the IBA storage building and IBAA waste stockpiles	Every 6 months	1 January, 1 July
Process monitoring (ambient air monitoring) parameters as required by condition 3.5	At the identified monitoring locations shown in plan “Current Cleveland-Dust Monitoring Locations”	Every 6 months	1 January, 1 July

Parameter	Units
IBA treated	tonnes
IBAA produced	tonnes
Ferrous metals recovered	tonnes
Non-ferrous metals recovered	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	m <sup>3</sup>
Energy usage	Annually	MWh
Other performance parameters	Annually	tonnes per production unit

Parameter	Reporting form	Form version number and date
Ambient air monitoring	Ambient Air Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Process monitoring	Process Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

# 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	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Measures taken, or intended to be taken, to stop the emission	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements for the breach of permit conditions not related to limits</b>	
<b>To be notified within 24 hours of detection</b>	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

<b>(d) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
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 submitted as soon as practicable**

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 which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator



## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“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.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“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.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

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

Pests” means Birds, Vermin and Insects.

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

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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.

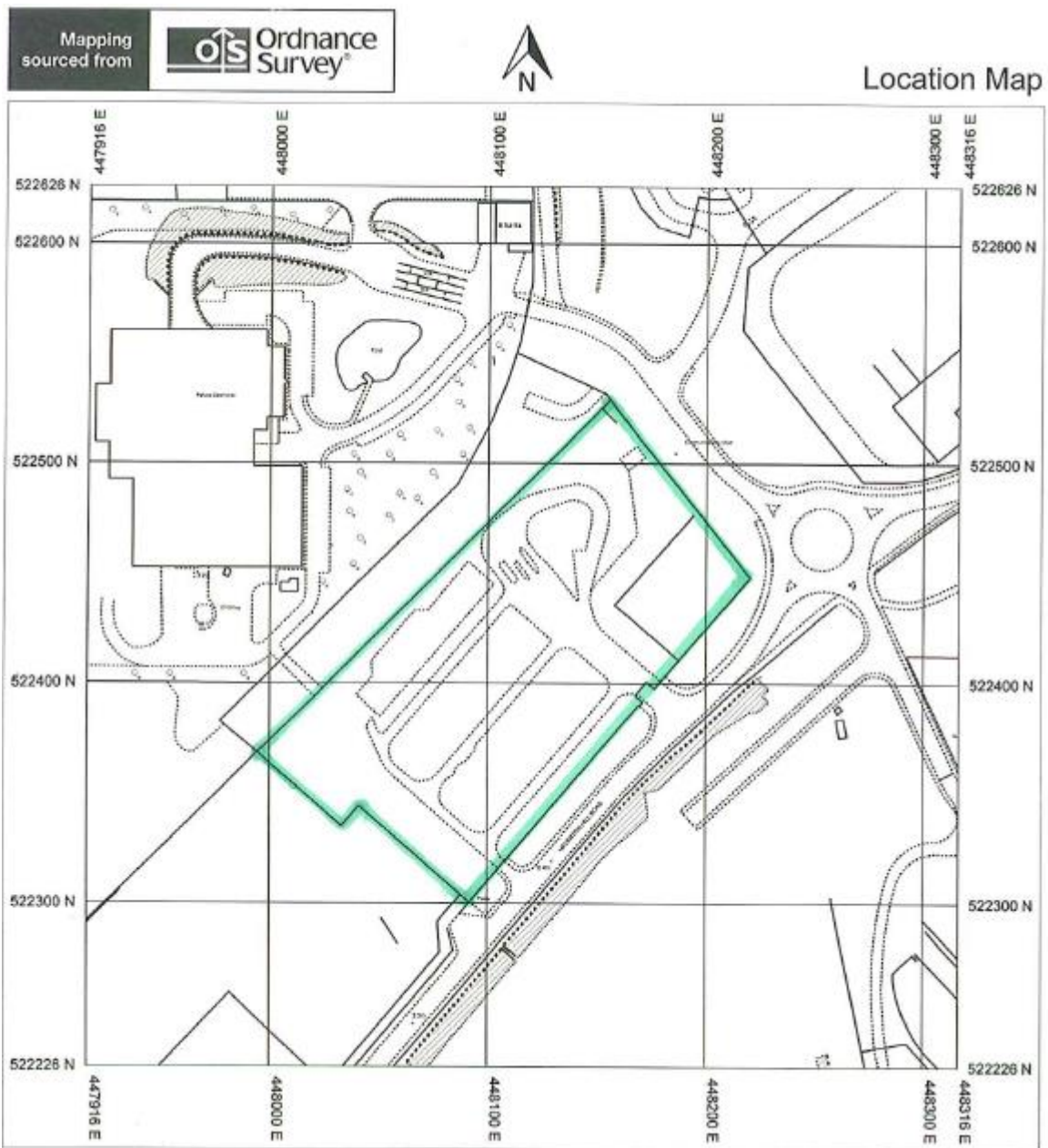
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions 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, 6% dry for solid fuels; and/or

in relation to emissions 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 “year” means calendar year ending 31 December.

“year” means calendar year ending 31 December.

# Schedule 7 – Site plan



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