

# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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**Cenin Limited**

**The Research Centre  
Parc Stormy  
Stormy Down  
Bridgend  
CF33 4RS**

Permit number

**EPR/SP3936TL**

# The Research Centre

## Permit number EPR/SP3936TL

### Introductory note

#### This introductory note does not form a part of the permit

The main features of the permit are as follows.

Cenin Limited produces cement, flyashes and mineral products using waste fly ash powder from power generation plants burning paper sludge, coal, biomass, wood and plastics. The paper sludge ash is classified as hazardous waste because it has a lime content that is greater than 10%.

The Production process is an alternative to conventional cement production. Waste fly ash and other raw materials are milled separately to the desired particle size and blown into holding silos before being weighed. The fly ash is then blended with aggregate, blast furnace slag, minerals and cement. This causes a chemical reaction that converts lime (CaO) into limestone and dolomite. Inside the blending station the material composition is constantly monitored and adjusted until the required specification is reached for its end use as a cement or cement replacement. On completion the composition meets the specification of cement in accordance with BS:EN197 Part 1 (Composition, specifications and conformity criteria for common cement. )

The entire process is enclosed in silos, screw conveyors and a blown air system. Air is vented to the atmosphere, via a bag filter, to a 16m stack. Cenin Limited are required to undertake monitoring of particulate emissions from the stack to air to ensure that impacts from the production process, on the environment, and human health, are minimised.

The status log of the 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/SP3936TL/A001	Duly made 24/11/2010	Application for cement production facility using hazardous waste fly ash
Additional information received	10/02/2011	Confirmation of waste acceptance procedures, waste storage arrangements, floor plan, waste types, diesel storage tanks, management system, raw materials, energy, noise, monitoring, environmental risk assessment and site condition report
	10/03/2011	Confirmation of waste types, raw materials and monitoring
	16/03/2011	Particulate monitoring data

**Status log of the permit**

Description	Date	Comments
	11/04/2011	Particulate monitoring data
	17/05/2011	Ash characterisation data
	20/05/2011	Particulate monitoring data
	27/05/2011	Confirmation of capacity of diesel generator
	10/06/2011	Information for site condition report
Permit determined	24/06/2011	Permit issued
Agency variation determined EPR/SP3936TL/V002	25/03/2013	Agency variation to implement the changes introduced by IED
Notification of Variation received EPR/SP3936TL/V003	28/06/2017	The addition to the existing permit of European Waste Code input type 16.08.04 to Permitted Waste Types table.
Variation issued EPR/SP3936TL/V003	15/09/2017	Varied permit issued to Cenin Limited
Regulation 61 Notice sent to the Operator	05/04/2019	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Waste Treatment.
Regulation 61 Notice response	26/09/2019	Response received from the operator consisting of: <ul style="list-style-type: none"><li>- Section 61 review FINAL</li><li>- iso 14001</li><li>- S5 Response (Cenin to EA)</li></ul>
	15/07/2020	2 <sup>nd</sup> response received from the operator consisting of: <ul style="list-style-type: none"><li>- NRW BAT Review Further Section 61 responses</li><li>- IMS03-01 - Improvement Programmes</li><li>- Appendix 6 Cenin Ltd Noise Management Plan</li><li>- Appendix 7 Cenin Ltd Site Closure Plan</li><li>- Appendix 9 Cenin Ltd Accident Management Plan</li><li>- Cenin Ltd Internal Management Systems Manual</li></ul>
Notification of Variation received EPR/SP3936TL/V004	21/09/2020	The addition to the existing permit of European Waste Code input type 10.01.03 to Permitted Waste Types table.

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Variation issued EPR/SP3936TL/V004	03/11/2020	Varied permit issued to Cenin Limited.
Regulation 61 Notice response	14/12/2020	Consisting of: <ul style="list-style-type: none"><li>- email response</li><li>- BAT 41 Cenin Ltd Stack emissions 2020 Averages - Daily, Monthly</li><li>- Cenin Limited - site plan</li><li>- Cenin Plant usage of renewable energy</li></ul>
NRW Initiated Variation determined EPR/SP3936TL/V005	08/02/2021	Varied and consolidated permit issued to Cenin Limited.
Application received PAN-026222 (EPR/SP3936TL/V006)	01/05/2025	Application to vary the permit to add an additional waste code to the permitted waste list.
Varied Permit Issued EPR/SP3936TL/V006	06/08/2025	Consolidated and Varied permit issued to Cenin Limited.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

**Permit number**

EPR/SP3936TL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/SP3936TL/V006 authorising,

**Cenin Limited** (“the operator”),

whose registered office is

**The Research Centre**

**Parc Stormy**

**Stormy Down**

**Bridgend**

**CF33 4RS**

company registration number **05626851**

to operate an installation at

**The Research Centre**

**Parc Stormy**

**Stormy Down**

**Bridgend**

**CF33 4RS**

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

Name	Date
Anna Griffiths	<b>06 August 2025</b>

Authorised on behalf of Natural Resources Wales

# 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.

### 2.3 Operating techniques

- 2.3.1 (a) 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 Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.2; and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 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.
- 2.3.4 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 Technical requirements**

### **Hazardous waste storage and treatment**

- 2.4.1 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

## **2.5 Improvement programme**

- 2.5.1 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 Natural Resources Wales.
- 2.5.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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 except from the sources and emission points listed in schedule 3 tables S3.1.
- 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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 Monitoring**

3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1

3.3.2 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.

3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.

3.3.4 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 unless otherwise agreed in writing by Natural Resources Wales.

### **3.4 Odour**

3.4.1 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 Natural Resources Wales, 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.

3.4.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

### **3.5 Noise and vibration**

3.5.1 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 Natural Resources Wales, 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.

3.5.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

## 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 Natural Resources Wales, 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 Natural Resources Wales.

### 4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 Natural Resources Wales 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 (a) In the event 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 Natural Resources Wales,
  - (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) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

## **4.4 Interpretation**

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

# Schedule 1 - Operations

<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>
A1	S5.3 A(1) (a) (vi)  Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day involving recycling or reclamation of inorganic materials other than metals or metal compounds.	<b>R5:</b> Recycling/reclamation of inorganic materials other than metals and metal compounds.  <b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).  Producing cement using waste fly ash powders and air pollution control residues from power generation plants burning paper sludge, wood, plastics and other municipal wastes.	From receipt of waste fly ash and other raw materials to storage of post process cement.  Waste types are specified in Table S2.2.
A2	S5.6 A(1) (a)  Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3	<b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	Waste types are specified in Table S2.2.
<b>Directly Associated Activity</b>			
A3	Electrical power supply	500 kWth diesel generator to supply electricity and residual heat for warming blending process.	Includes diesel receipt and storage.

**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/SP3936TL/A001	'General Management Plan' (CEN/IPPC/2010) in response to section 3a – technical standards, Part B3 of the application form excluding <ul style="list-style-type: none"> <li>– Appendix 4 – Cenin Floor Plan</li> <li>– Appendix 9 – Accident Management Plan</li> </ul>	10/02/11
Response to Schedule 5 Notice dated 01/02/11 EPR/SP3936TL/A001	Response to question 1 detailing pre-acceptance procedures Response to questions 2 to 7 detailing acceptance procedures Response to questions 8 to 10 detailing storage arrangements Response to questions 11 to 14 clarifying the Cenin Floor Plan including revised Appendix 4 of CEN/IPPC/2010 Response to question 17 detailing the amount of waste types to be accepted Response to questions 18 and 19 detailing diesel storage tank location and bund specification Response to question 21 detailing the management system Response to question 29 detailing the accident management plan including revised Appendix 9 of CEN/IPPC/2010 Response to questions 30 and 31 detailing noise monitoring Response to questions 33 to 35 detailing particulate monitoring and abatement.	11/02/11
Additional information EPR/SP3936TL/A001	Response to question detailing operation of the diesel generator	27/05/11
Response to regulation 61(1) Notice – request for information dated 05/05/2019 detailing how the Operator will comply with the BAT conclusions for Waste Treatment, under Directive 2010/75/EU of the European Parliament and of the Council	Response consisting of: <ul style="list-style-type: none"> <li>- Section 61 review FINAL</li> <li>- iso 14001</li> <li>- S5 Response (Cenin to EA)</li> </ul>	26/09/19
Additional information for regulation 61(1) Notice	Response consisting of: <ul style="list-style-type: none"> <li>- NRW BAT Review Further Section 61 responses</li> <li>- IMS03-01 - Improvement Programmes</li> <li>- Appendix 6 Cenin Ltd Noise Management Plan</li> <li>- Appendix 7 Cenin Ltd Site Closure Plan</li> <li>- Appendix 9 Cenin Ltd Accident Management Plan</li> <li>- Cenin Ltd Internal Management Systems Manual</li> </ul>	15/07/20

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Additional information for regulation 61(1) Notice	Response consisting of: <ul style="list-style-type: none"> <li>- email response</li> <li>- BAT 41 Cenin Ltd Stack emissions 2020 Averages - Daily, Monthly</li> <li>- Cenin Limited - site plan</li> <li>- Cenin Plant usage of renewable energy.</li> </ul>	14/12/20
Application EPR/SP3936TL/V006	Response to question 3d3 of the Part C application form. Response provided as a separate document entitled ' <i>Part C 3d3 Statement ref evidence ref management of handling daily Raw materials EWC Code 10 01 15</i> '	27/06/24

**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
IC1	The Operator shall submit a report that summarises waste characterisation for waste classified as 10 01 15. On submission Natural Resources Wales will review this report to ensure the waste characterisation was undertaken to the required standards as stipulated in Appendix D of Guidance on the classification and assessment of waste: Technical Guidance WM3 and also in the British Standards and supporting technical reports – Characterisation of waste – Sampling of waste. materials – (BS EN 14899:2005).  We would expect the waste characterisation to be based on analysis of monthly samples taken over a 6 month period.	9 months after issue of V006.

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

**Table S2.1 Raw materials and fuels**

Raw materials and fuel description	Specification
-	-

**Table S2.2 Permitted waste types and quantities for cement production**

<b>Maximum quantity</b>	The maximum quantity of waste to be accepted on site shall not exceed 75,000 tonnes per year. Raw materials: <ul style="list-style-type: none"> <li>• Blast Furnace Slag</li> <li>• Glass Blast Furnace Slag</li> <li>• Limestone dust</li> <li>• Cement</li> </ul>
<b>Waste code</b>	<b>Description</b>
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>
<b>10 01</b>	<b>wastes from power stations and other combustion plants (except 19)</b>
10 01 03	fly ash from peat and untreated wood
10 01 15	bottom ash, slag, and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>
<b>16 08</b>	<b>spent catalysts</b>
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)
<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 07*	solid wastes from gas treatment
19 01 13*	fly ash containing hazardous substances
19 01 14	fly ash other than those mentioned in 19 01 13
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 04*	premixed wastes composed of at least one hazardous waste

## Schedule 3 – Emissions and monitoring

**Table S3.1 Point source emissions to air – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
A1 [Point A1 on site plan in schedule 7]	Abatement plant (including bag filter) serving production process	Particulate matter	5 mg/Nm <sup>3</sup>	None specified	Continuous	BS EN 13284-1
A2 [Point A2 on site plan in schedule 7]	Diesel generator exhaust	No parameter set	No limit set	None set	None set	None set
Vents in storage silos and conveyor lines	Storage silos and conveyor lines	No parameter set	No limit set	None set	None set	None set

## Schedule 4 – Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.1.1.	A1	Every 12 months	31 January
	A2 and vents	No reporting required	

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Cement produced	tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Hazardous waste produced per tonne of cement produced	Annually	tonnes/tonne of cement produced
Blast furnace slag processed per tonne of cement produced	Annually	tonnes/tonnes of cement produced
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Generation of residues	Annually	tonnes
Generation of waste water	Annually	m <sup>3</sup>

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A

# 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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment</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 permit condition</b>	
<b>To be notified within 24 hours of detection</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) In the event 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:	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

**Part B - to be 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.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

# Schedule 6 - Interpretation

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

*“Annex II”* means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“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 Natural Resources Wales 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.

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

*“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 or background concentration 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 (Wales) Regulations 2005 (as amended)

*“hazardous substance”* means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

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

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

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

*“recovery” or “R”* means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“Waste code”* means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) 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.

*“Waste Treatment BAT Conclusions”* means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

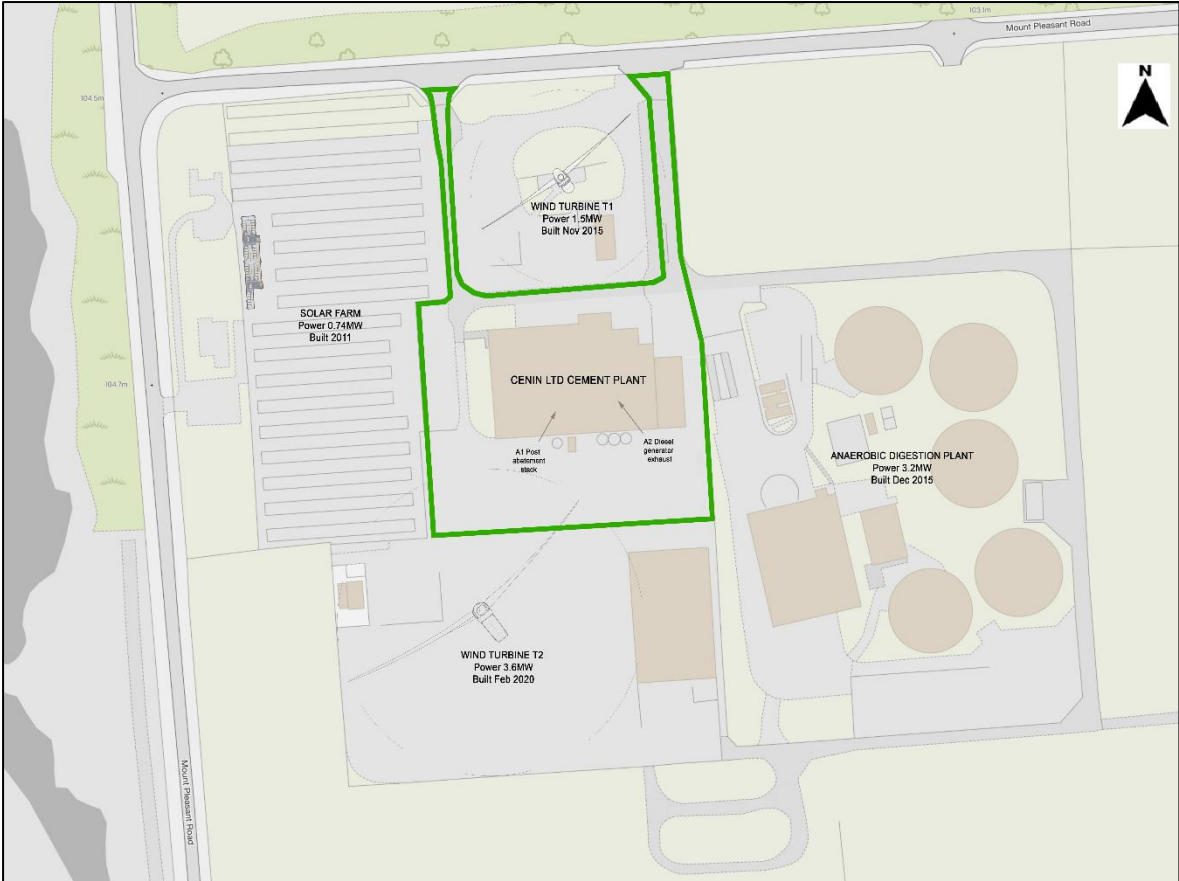
*“year”* means calendar year ending 31 December.

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:

- (a) 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
- (b) 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.

# Schedule 7 - Site plan



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