

# Variation notice with introductory note

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

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D200 Energy Limited

D200 Energy Centre  
1 Thane Road West  
Nottingham  
NG2 3AA

**Permit application number**

EPR/MP3337VZ/V005

**Permit number**

EPR/MP3337VZ

# D200 Energy Centre

## Permit number EPR/MP3337VZ

### 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.

The permit has been reviewed against the requirements of the Medium Combustion Plant Directive (MCPD) and the relevant conditions and monitoring requirements have been added.

The site includes the following existing Medium Combustion Plant (MCP), with a total capacity of 90.9 MWth:

- 3 x 16 MWth Combined Heat and Power (CHP) gas turbines fuelled with natural gas and gas oil (standby fuel):
  - A1/1 - SK 54645 36581
  - A1/2 - SK 54650 36584
  - A1/3 - SK 54656 36587

The CHPs are arranged into one windshield, with use of a multi-flue chimney.

- 3 x 14.3 MWth package boilers fuelled with natural gas and gas oil (standby fuel):
  - A2/1 - SK 54634 36575
  - A2/3 - SK 54640 36563
  - A2/4 - SK 54643 36557

The boiler flues are arranged into one windshield. Each boiler exhausts to a dedicated flue within a separate multi-flue chimney.

#### The main features of this installation

The installation is a Combined Heat and Power (CHP) station providing electricity, steam, compressed air and medium pressure hot water services to the Boots Head office site in Beeston. This permit was transferred to D200 Energy Limited in 2014, the site was commissioned during 1996. The installation is centred on National Grid Reference SK 5465 3653.

The D200 Energy Centre comprises 3 gas turbines (16 MW thermal input each), each connected to a waste heat boiler, together with 3 package steam boilers (14.3 MW thermal input each). Each turbine is retrofitted with low NO<sub>x</sub> burners and can generate 4.7MW of electrical power for distribution around the site or export to the national grid. The turbines and package boilers operate on natural gas, with gas oil as a standby fuel only. Storage of the gas oil is in two above ground bunded 250-m<sup>3</sup> tanks.

The Energy Centre also houses five oil-free, rotary screw air compressors which provide all the site compressed air, heat exchangers which provide pressurised hot water to parts of the site, electrical switch gear for power distribution, ancillary equipment such as pumps, motors and water treatment plant and the control and monitoring system.

Each gas turbine and waste heat boiler set exhausts to a dedicated flue within a multi-flue chimney serving all the gas turbines. Each package boiler also exhausts to a dedicated flue within a separate multi-flue chimney. Trade effluent is directed to a sump, after pH treatment where necessary, before being discharged to the public foul sewer via the Boots site drainage system. Surface waters are collected and pass through interceptors before being discharged to controlled waters via the Boots site drainage system. Water is extracted from the Beeston Canal and used indirectly as a coolant for the gas turbine oil coolers and the air compressor heat exchangers.

The Operator's Environmental Management System is externally accredited to ISO 14001. There are no Sites of Special Scientific Interest (SSSI) or European designated sites (e.g. Special Protection Areas) that this facility will have a significant impact on.

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/FP3936SZ/A001	30/03/2006	Duly made
Additional information received	19/10/2006	Operator Company details and Gas Compound Operation.
Additional information received	27/11/2006	H1 Environmental Risk Assessment.
Permit determined EPR/FP3936SZ	30/11/2006	Original permit issued to Boots Company PLC.
Variation application EPR/FP3936SZ/V002	15/01/2008	Duly made
Variation determined EPR/FP3936SZ/V002	28/11/2008	Varied permit issued.
Transfer application EPR/MP3337VZ/T001	23/06/2014	Duly Made Full transfer of the permit.
Transfer determined EPR/MP3337VZ	23/07/2014	Full transfer of permit to D200 Energy Limited.
Variation application EPR/MP3337VZ/V002	24/08/2017	Duly made Application to extend the site boundary and relocate several directly associated activities.
Variation determined EPR/MP3337VZ/V002	30/10/2017	Varied permit issued.
Part surrender application EPR/MP3337VZ/S003	30/10/2019	Duly made Application to surrender part of the permitted area and some of the emission points to water.
Additional information received	30/03/2020	Update site plan.
Part surrender determined EPR/MP3337VZ/S003	03/04/2020	Part surrender complete.
Application EPR/MP3337VZ/V004 (variation)	Regulation 61 Notice response received 23/07/2024	Environment Agency initiated variation following Medium Combustion Plant permit review.
Variation determined EPR/MP3337VZ/V004	15/01/2025	Notice of variation issued.

Status log of the permit		
Description	Date	Comments
Variation determined and consolidation issued EPR/MP3337VZ/V005	05/09/2025	<p>Agency initiated variation to correct the errors made in V004.</p> <p><u>Note:</u> To avoid confusion, V004 should be treated as though it did not happen. This variation (V005) considers S003 as the latest variation.</p> <p>The changes detailed in Schedule 1 are the changes required as part of the MCP permit review, from reviewing S003 alone.</p>

End of introductory note

# Permit

## 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/MP3337VZ**

### Issued to

**D200 Energy Limited** (“the operator”)

whose registered office is

**1 Thane Road West**

**Nottingham**

**NG2 3AA**

company registration number **08883806**

to operate a regulated facility at

**D200 Energy Centre**

**1 Thane Road West**

**Nottingham**

**NG90 5UN**

to the extent set out in the schedules.

This notice shall take effect from

Name	Date
Beccy Brough	05/09/2025

Authorised on behalf of the Environment Agency

## Schedule 1

The following conditions were varied as a result of an Environment Agency initiated variation:

- Table S1.1, as referenced by conditions 2.1.1 and 2.3.5, is amended to include more details on the MCPs. The following restrictions are retained and have been included in Table S1.1: use of gas oil is restricted to 500 hours per year and only when gas supply is interrupted.
- Table S2.1, as referenced by condition 2.3.3, is amended to remove the footnotes and replace them with table rows for gas oil purchased before and after 01/01/2008, and include the wording “or equivalent substitute to be agreed in writing with the Environment Agency”.
- Table S3.1, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4, is amended to improve the table layout, add carbon monoxide monitoring for running on gas oil, and assign the CHP NO<sub>x</sub> ELV of 125 mg/m<sup>3</sup> to when running on gas oil (which was previously assigned to natural gas by error).
- Table S4.1, as referenced by condition 4.2.3 is amended to include reporting requirements for when the MCPs are running on gas oil.
- Table S4.4, as referenced by conditions 4.2.2 and 4.2.3, is amended to modernise the table and update the reporting form for emissions to air.
- Schedule 6, as referenced by condition 4.4.1 is amended to include the MCP related interpretations.

The following conditions are added following an Environment Agency initiated variation:

- 2.3.5 For MCPs specified in Schedule 1 Table S1.1 (AR1):
  - (a) The operator must keep periods of start-up and shut down of the combustion plant as short as possible.
  - (b) There shall be no persistent emission of ‘dark smoke’ as defined in section 3(1) of the Clean Air Act 1993.
- 3.5.5 For the following activities referenced in Schedule 1 Table S1 (AR1): For existing MCP Monitoring measurements shall be carried out within four months of the issue date of this notice.
- 3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut down.
- 4.2.5 The operator shall maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.
- 4.3.7 The operator shall notify the Environment Agency, as soon as is practicable, in writing of any change of MCP at the specified location.

## Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

## Permit

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

#### Permit number

**EPR/MP3337VZ**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/MP3337VZ/V005 authorising,

**D200 Energy Limited** (“the operator”),

whose registered office is

**1 Thane Road West**

**Nottingham**

**NG2 3AA**

company registration number **08883806**

to operate an installation at

**D200 Energy Centre**

**1 Thane Road West**

**Nottingham**

**NG90 5UN**

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

Name	Date
Beccy Brough	05/09/2025

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.

### 1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
  - (b) take appropriate measures to ensure the efficiency of energy generation at the permitted installation is maximised;
  - (c) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (d) 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;
  - (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”).

### **2.2 The site**

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

### **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan 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 Standby fuel (gas oil) may be used but for no more than 500 hours per year.
- 2.3.5 For the following activities referenced in Schedule 1 Table S1.1 (AR1):
- (a) the operator must keep periods of start-up and shut down of the combustion plant as short as possible.
  - (b) there shall be no persistent emission of ‘dark smoke’ as defined in section 3(1) of the Clean Air Act 1993.

## **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, S3.2 and S3.3.
- 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) point source emissions specified in tables S3.1, S3.2 and S3.3;
- 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 continuous), 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, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 For the following activities referenced in Schedule 1 Table S1 (AR1): For existing MCP Monitoring measurements shall be carried out within four months of the issue date of this notice.
- 3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut down.

## **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.
- 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 The operator shall maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.

## 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.
  - (d) 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.
- 4.3.2 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.3 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:

- (c) any change in the operator's name or address; and
  - (d) any steps taken with a view to the dissolution of the operator.
- 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.
- 4.3.6 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
  - (a) a decision by the Secretary of State not to re-certify the agreement;
  - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
  - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.
- 4.3.7 The operator shall notify the Environment Agency, as soon as is practicable, in writing of any change of MCP at the specified location.

## **4.4 Interpretation**

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

# Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	Section 1.1 Part A(1) (a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.	<p>Six existing MCP:</p> <ul style="list-style-type: none"> <li>A1/1, A1/2, and A1/3 (shared windshield)  3 x 16 MWth combined heat and power (CHP) gas turbines fuelled with natural gas and gas oil (standby fuel), aggregated to 48 MWth.</li> <li>A2/1, A2/3, and A2/4 (shared windshield)  3 x 14.3 MWth package boilers fuelled with natural gas and gas oil (standby fuel), aggregated to 43 MWth.</li> </ul>	<p>From receipt of natural gas / gas oil to discharge of exhaust gases, including the generation of heat and the generation of electricity for use on-site and/or for export to the National Grid.</p> <p>When operating using gas oil (standby fuel), the six MCPs are limited operating hours MCPs, restricted to 500 hours use in total per year, (as specified in condition 2.3.4).</p> <p>Gas oil is only to be used when gas supply is interrupted.</p>
<b>Directly Associated Activity</b>			
Directly associated activity		Water and effluent treatment.	From receipt of raw materials to dispatch of chemically treated effluent.
Directly associated activity		Operation of cooling water system.	From abstraction of canal water to discharge back to Beeston canal and operation of back-up cooling water system.
Directly associated activity		Surface water drainage.	Handling and storage of surface drainage until discharge to the site surface water system.
Directly associated activity		Oil storage in two bunded 250m <sup>3</sup> above ground tanks.	From receipt of raw materials to dispatch for use.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Variation application	All information supplied in application EPR/FP3936SZ/V002.	20/12/07
Variation application	2006 permit application sections B2.1 – B2.2 as updated August 2017.	24/08/17
	Response to questions 2 - 7 of the Schedule 5 Notice dated 22/09/17 regarding site infrastructure.	12/10/17

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas oil or equivalent substitute to be agreed in writing with the Environment Agency	Existing gas oil supplies, <u>before 01/01/2008</u> , can exceed 0.1% w/w sulphur content
	Gas oil purchased <u>after 01/01/2008</u> must not exceed 0.1% w/w sulphur content

## Schedule 3 – Emissions and monitoring

For the purposes of this Schedule, the following interpretation shall apply:

An invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system. However, to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least two thirds of the period (40 minutes). Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing.

Table S3.1 Point source emissions to air						
Emission point ref. & location (located on site plan in Schedule 7)	Source	Parameter	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method <sup>Note 1</sup>
A1/1, A1/2 and A1/3, as shown on site plan in Schedule 7	3 x 16 MWth CHP gas turbines fired on <b>natural gas</b>	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	75 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.
	Existing MCP		100 mg/m <sup>3</sup>	Maximum daily 95%ile of validated hourly averages during reporting period	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.
			75 mg/m <sup>3</sup>	Discontinuous Extractive	Every 12 months	BS EN 14792 or other method agreed in writing with the Environment Agency.



Table S3.1 Point source emissions to air						
Emission point ref. & location (located on site plan in Schedule 7)	Source	Parameter	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method <sup>Note 1</sup>
		Carbon Monoxide	100 mg/m <sup>3</sup>	Maximum daily 95%ile of validated hourly averages during reporting period	Continuous	ISO 12039 or other method agreed in writing with the Environment Agency.
	3 x 16 MWth CHP gas turbines fired on <b>gas oil</b> (standby fuel)	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	125 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.
	Existing MCP	Carbon Monoxide	No limit set	Discontinuous extractive	After 1500 operating hours have elapsed. And no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058 or other method agreed in writing with the Environment Agency.
A2/1, A2/3, A2/4, as shown on site plan in Schedule 7	3 x 14.3 MWth package boilers fired on <b>natural gas</b>	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	185 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.
	Existing MCP					

Table S3.1 Point source emissions to air						
Emission point ref. & location (located on site plan in Schedule 7)	Source	Parameter	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method <sup>Note 1</sup>
			No Limit Set	Calendar monthly mean	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.
			185 mg/m <sup>3</sup>	Discontinuous Extractive	Every 12 months	BS EN 14792 or other method agreed in writing with the Environment Agency.
		Carbon Monoxide	100 mg/m <sup>3</sup>	Discontinuous Extractive	Every 12 months	BS EN 15058 or other method agreed in writing with the Environment Agency.
	3 x 14.3 MWth package boilers fired on <b>gas oil</b> (standby fuel)	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	250 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.
	Existing MCP		No limit set	Calendar monthly mean	Continuous	ISO 10849 or other method agreed in writing with the Environment Agency.

Table S3.1 Point source emissions to air						
Emission point ref. & location (located on site plan in Schedule 7)	Source	Parameter	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method <sup>Note 1</sup>
		Carbon Monoxide	No limit set	Discontinuous extractive	After 1500 operating hours have elapsed. And no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058 or other method agreed in writing with the Environment Agency.
Note 1: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O2 content of 6% for solid fuels, 15% for engines and gas turbines and 3% all other MCPs.						

<b>Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1 on drawing D200-C-434 Rev N received 30/03/2020. Emission to Beeston Canal	Maximum temperature	Turbine oil and air compressor cooling – canal water only	30°C	Instantaneous	Continuous	-
	Hourly rate	Turbine oil and air compressor cooling – canal water only	320m³ an hour	In any 1 hour period	Continuous	-
S3 on drawing D200-C-434 Rev N received 30/03/2020.. Emission to Canal Dyke via Boots site drainage system	Oil or grease	Surface water from roof well area	No visible emission	Spot sample	Fortnightly	Permanent sampling access not required

<b>Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
S1 as shown on drawing D200-C-434 Rev N received 30/03/2020. Emission to Severn Trent Water's Stoke Bardolph Sewage Treatment Works.	pH	Energy Centre Effluent Sump	6-12	Instantaneous	Daily	BS6068-2-50
S4 as shown on drawing D200-C-434 Rev N received 30/03/2020. Emission to Severn Trent Water's Stoke Bardolph Sewage	-	Uncontaminated surface water and cooling water – towns water only and filter backwash	-	-	-	Permanent sampling access not required

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
Treatment Works.						
S5 as shown on D200-C-434 Rev N received 30/03/2020. Emission to Severn Trent Water's Stoke Bardolph Sewage Treatment Works.	Oil or grease	Surface water from fuel delivery slab	No visible emission	Spot sample	Monthly	-

## 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>
Oxides of nitrogen (natural gas firing)  Parameters as required by condition 3.5.1.	A1/1, A1/2, A1/3, A2/1, A2/3, A2/4	Every 6 months	1 January
Oxides of nitrogen (gas oil firing)  Parameters as required by condition 3.5.1.	A1/1, A1/2, A1/3, A2/1, A2/3, A2/4  (limited hours MCP when fuelled with gas oil)	After 1,500 operating hours have elapsed  And no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5.	1 January
Carbon Monoxide (natural gas and gas oil firing) Parameters as required by condition 3.5.1	A1/1, A1/2, A1/3,	Every 6 months	1 January
	A2/1, A2/3, A2/4	Every 12 months	1 January
pH Parameters as required by condition 3.5.1	S1	Every 6 months	1 January
Temperature	W1	Every 6 months	1 January
Rate of Flow	W1	Every 6 months	1 January

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Power generated	GWhr
Steam Generated	Tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Canal Water used for cooling	Annually	M <sup>3</sup>
Towns Water usage	Annually	M <sup>3</sup>
Gas usage	Annually	MJ
Oil usage	Annually	MJ

Table S4.4 Reporting forms		
Media/ parameter	Reporting format	Date of form
Point source emissions to air <sup>1</sup>	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Effluent/ Cooling Water	Form <i>Effluent/ Cooling Water Monitoring</i> or other form as agreed in writing by the Agency	21 July 2008
Other performance indicators	Form <i>Performance</i> or other form as agreed in writing by the Environment Agency	30 November 2006
Note 1: This reporting form is to be used for <i>both</i> continuous and discontinuous monitoring.		

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

<b>(c) 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.	

<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.

“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.

“base load” means: (i) as a mode of operation, operating for >4000hrs pa; and (ii) as a load, the maximum load under ISO conditions that can be sustained continuously, i.e. maximum continuous rating.

“calendar monthly mean” means the value across a calendar month of all validated hourly means.

“CEN” means Comité Européen de Normalisation.

“combined heat and power” (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

“Combustion Technical Guidance Note” means IPPC Sector Guidance Note Combustion Activities, version 2.03 dated 27th July 2005 published by Environment Agency.

“Commissioning” means testing of the installation that involves any operation of a Large Combustion Plant referenced in schedule 1, table S1.1.

“compliance date” means 01/01/2025 for existing MCPs with net rated thermal input of greater than 5MWth or 01/01/2030 for existing MCPs with a net rated thermal input of less than or equal to 5MWth.

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

“DLN” means dry, low NO<sub>x</sub> burners.

“Energy efficiency” the annual net plant energy efficiency means the value calculated from the operational data collected over the year.

“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.

“emissions to land” includes emissions to groundwater.

“existing medium combustion plant” means an MCP in operation before 20 December 2018.

“gas oil” includes diesel and is defined in Article 3(19) of the MCPD.

“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.

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

“limited operating hours MCP” means an MCP that meets the requirements of paragraph 8 of Part 2 of Schedule 25A of the Environmental Permitting Regulations. Drafting note: for limited hours MCP only

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

“MCR” means maximum continuous rating.

“medium combustion plant” or “MCP” means a combustion plant with a net rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“MSDL” means minimum shut-down load as defined in Implementing Decision 2012/249/EU.

“MSUL” means minimum start-up load as defined in Implementing Decision 2012/249/EU.

“Natural gas” means naturally occurring methane with no more than 20% by volume of inert or other constituents.

“ncv” means net calorific value.

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

“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 Directive 2008/98/EC of the European Parliament and of the Council on waste.

“SI” means site inspector.

“Standby fuel” means alternative liquid fuels that are used in emergency situations when the gas fuel which is normally used, is not available.

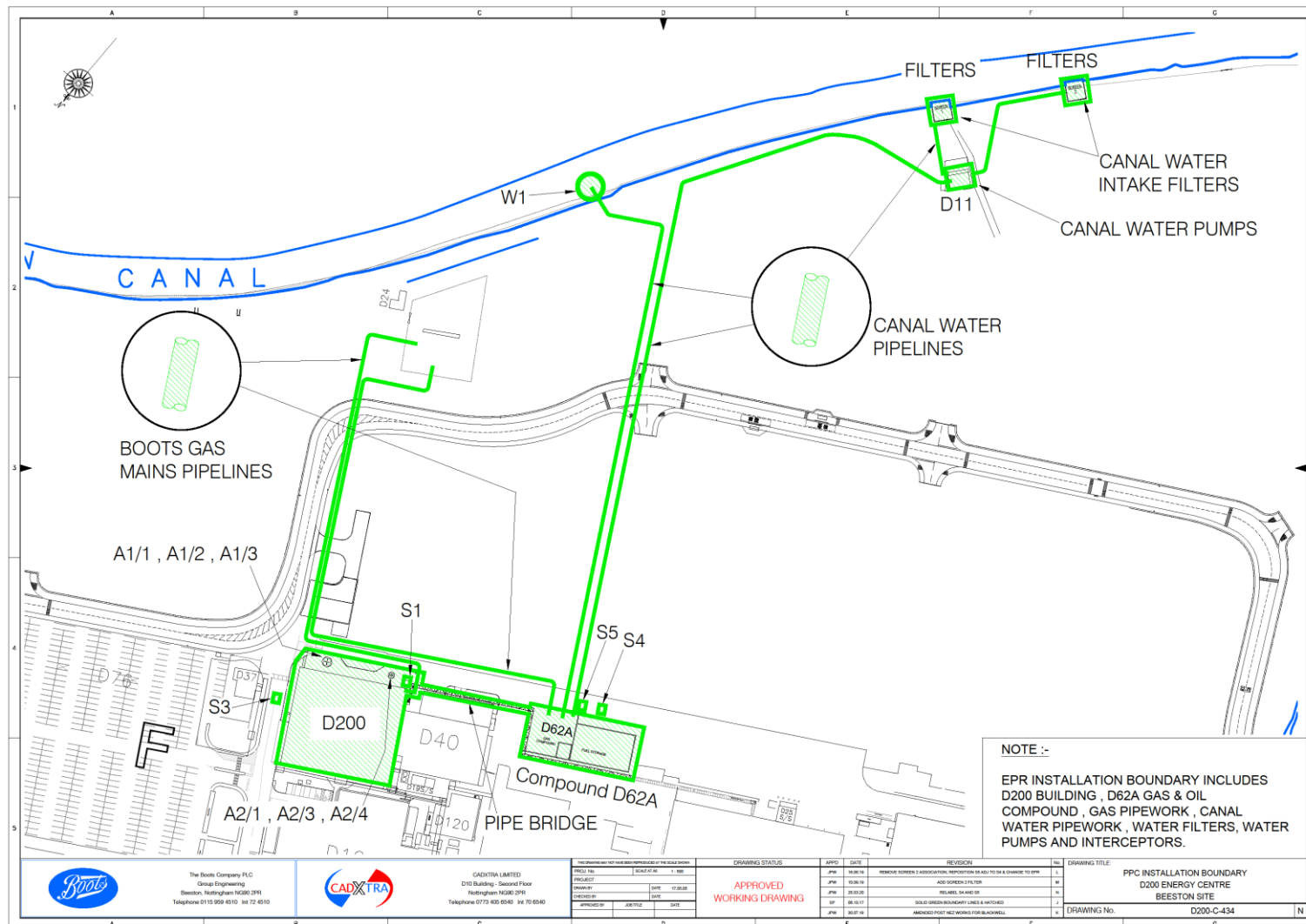
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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 gas turbine ignition engine combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or
- in relation to emissions from combustion processes comprising a gas turbine with a waste heat boiler, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry, unless the waste heat boiler is operating alone, in which case, with an oxygen content of 3% dry for liquid and gaseous 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.

## Schedule 7 – Site plan



END OF PERMIT