

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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E.ON UK Cogeneration Limited

Castleford Power Station Wheldon Road Castleford West Yorkshire WF10 2JT

Variation application number

EPR/BK1627IX/V007

Permit number

EPR/BK1627IX

Castleford Power Station Permit number EPR/BK1627IX

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (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 that all the conditions of the permit have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made and contains all conditions relevant to this permit.

The requirements of the Industrial Emissions Directive (IED) 2010/75/EU are given force in England through the Environmental Permitting (England and Wales) Regulations 2010 (the EPR) (as amended).

This Permit, for the operation of large combustion plant (LCP), as defined by articles 28 and 29 of the Industrial Emissions Directive (IED), is varied by the Environment Agency to implement the special provisions for LCP given in the IED, by the 1 January 2016 (Article 82(3)). The IED makes special provisions for LCP under Chapter III, introducing new Emission Limit Values (ELVs) applicable to LCP, referred to in Article 30(2) and set out in Annex V.

As well as implementing Chapter III of IED, the consolidated variation notice takes into account and brings together in a single document all previous variations that relate to the original permit issued. It also modernises all conditions to reflect the conditions contained in our current generic permit template.

The Operator has chosen to operate this LCP under the Transitional National Pan (TNP) compliance route. This is a change from the previous operating regime which did not include limits on mass emissions.

The variation notice uses an updated LCP number in accordance with the most recent DEFRA LCP reference numbers. The LCP reference has changed as follows:

LCP147 is changed to LCP92

The site was previously known as the 'C6 Solutions Limited' installation due to it providing electricity and steam to the C6 Solutions chemical site. C6 Solutions has since closed and the Operator requested that the Installation be renamed as 'Castleford Power Station'. We have accepted this request. We have also removed reference to release point A3 and added reference to A4 as requested by the Operator.

The rest of the installation is unchanged and continues to be operated as follows:

The purpose of the activity is to generate electricity for export to the National Grid via a combined cycle gas turbine (CCGT) which can also operate as an open cycle gas turbine (OCGT). The plant was originally designed as a Combined Heat and Power plant (CHP) providing steam to an adjacent chemical manufacturing site which has since closed. The installation known as the Castleford Power Station, operated by E.ON UK Cogeneration limited, is located in the town of Castleford and covers an area of approximately 0.5ha. The River Aire is approximately 400m to the north of the site. The nearest designated sensitive habitat are the Fairburn and Newton Ings (SSSI) 550m to the north of the site

The power station incorporates a single gas turbine with an associated heat recovery boiler, a single steam turbine, an electrical generator, a steam condensing and cooling system and a water treatment and polishing plant. LCP92 has a total aggregated net rated thermal input of 102.2MW and typically provides an electrical output of 50MW, in combined mode. The power station retains on site a package boiler with a net rated thermal input of 25MW however, it has been fully decommissioned. Reference to it (PB1 discharging via release point A3) has been removed from the permit.

Fuel, natural gas, is mixed into a proportion of compressed filtered air in the combustion chamber of the gas turbine and ignited. The hot combustion gases are expanded through a power turbine, which drives an electrical generator. The hot exhaust gases pass through the heat recovery boiler, where heat is extracted to raise steam. The steam from the heat recovery boiler is directed to the steam turbine, which drives a second electrical generator. The exhaust steam from the steam turbine is condensed in a direct open circuit water-cooled condenser.

The exhaust combustion gases from the heat recovery boiler are discharged to atmosphere through a dedicated stack, at a height of 45 metres. When operating as an OCGT the exhaust gases are discharged to atmosphere through a bypass stack, also at a height of 45 metres. The gas turbine uses dry low emissions technology to reduce emissions of NO_x in both combined and open modes

River water abstracted from the River Aire is used in a once through cooling system and discharged back to the River Aire.

Continuous emissions' monitoring is provided in the main and by-pass stacks for oxides of nitrogen, carbon monoxide and oxygen.

Surface and process water is recovered and reused via a reverse osmosis plant.

The plant includes an acoustic enclosure for the gas turbine to minimise noise.

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.

Status log of the permit		
Description	Date	Comments
Application received	11/12/00	Application for 102.2MW thermal input combined heat and power station
Additional information received	11/04/01, 27/04/01, 25/05/01, 23/05/01	Additional information on questions 22 and 26 to be supplied by 27.04.01. Responses to questions 22 and 26. Clarification of raw material, water and accidents and incidents issues. Clarification of air modelling issues.
Permit determined EPR/BK1627IX	06/06/01	Permit issued to Powergen Cogeneration Ltd.
(PAS Billing ref. BK1627IX)		
Application for variation	09/08/02	Amend the timetable for relevant improvement conditions
Additional information received	15/10/02	Further details on start up and shutdown, releases to air, abstraction rates and noise measurements.
Variation determined EPR/BK1627IX/V002 (PAS Billing ref. BS5568IX)	10/12/02	Variation issued to Powergen Cogeneration Ltd.
Application for variation	03/02/03	Amend the timetable for relevant improvement conditions
Variation determined EPR/BK1627IX/V003 (PAS Billing ref. BU1997IE)	05/02/03	Variation issued to Powergen Cogeneration Ltd.

Status log of the permit			
Description	Date	Comments	
Variation determined EPR/BK1627IX/V004 (PAS Billing ref. QP3639SP)	27/11/04	Environment Agency initiated variation to introduce monitoring and reporting requirements for large combustion plant required for compliance with the revised Large Combustion Plants Directive [Directive 2001/80/EC]. Variation issued to E.ON UK Cogeneration Limited	
Application for variation	19/10/07	To permit the discharge of process and surface water to sewer.	
Variation determined EPR/BK1627IX/V005 (PAS Billing ref. ZP3633XS)	08/11/07	Variation issued to E.ON UK Cogeneration Limited	
Variation determined EPR/BK1627IX/V006 (PAS Billing ref. FP3232ZJ)	11/03/13	Environment Agency Initiated Variation, to incorporate Eel Regulations improvement condition.	
Regulation 60 Notice sent to the Operator	31/10/14	Issue of a Notice under Regulation 60(1) of the EPR. Environment Agency Initiated review and variation to vary the permit under IED to implement the special provisions for LCP under Chapter III, introducing new Emission Limit Values (ELVs) applicable to LCP, referred to in Article 30(2) and set out in Annex V. The permit is also updated to modern conditions.	
Regulation 60 Notice response	27/03/15	Response received from the Operator.	
Additional information received	15/06/15	Response to request for further information (RFI) dated 12/05/15.	
Variation determined EPR/BK1627IX/V007 (PAS Billing ref. YP3239NR)	22/12/15	Varied and consolidated permit issued in modern condition format. Variation effective from 01/01/2016.	

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/BK1627IX

Issued to

E.ON UK Cogeneration Limited ("the operator")

whose registered office is

Westwood Way Westwood Business Park Coventry CV4 8LG

company registration number 2730697

to operate a regulated facility at

Castleford Power Station Wheldon Road Castleford West Yorkshire WF10 2JT

to the extent set out in the schedules.

The notice shall take effect from 01/01/2016

Name	Date
Anne Nightingale	22/12/15

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BK1627IX

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BK1627IX/V007 authorising,

E.ON UK Cogeneration Limited ("the operator"),

whose registered office is

Westwood Way Westwood Business Park Coventry CV4 8LG

company registration number 2730697

to operate an installation at

Castleford Power Station Wheldon Road Castleford West Yorkshire WF10 2JT

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

Name	Date
Anne Nightingale	22/12/15

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;
 - 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 red on the site plan at schedule 7a 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 For the following activities referenced in schedule 1, table S1.1: LCP92. Without prejudice to condition 2.3.1, the activities shall be operated in accordance with the "Electricity Supply Industry IED Compliance Protocol for Utility Boilers and Gas Turbines" revision 1 dated February 2015 or any later version unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 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.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1: LCP92. The end of the start up period and the start of the shutdown period shall conform to the specifications set out in Schedule 1, tables S1.2 and S1.4.
- 2.3.6 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.
- 2.3.7 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 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 Total annual emissions from the LCP emission points set out in schedule 3 tables S3.1 of a substance listed in schedule 3 table S3.4 shall not exceed the relevant limit in table S3.4.
- 3.1.4 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.

3.6 Monitoring for the purposes of the Industrial Emissions Directive Chapter III

- 3.6.1 All monitoring required by this permit shall be carried out in accordance with the provisions of Annex V of the Industrial Emissions Directive.
- 3.6.2 If the monitoring results for more than 10 days a year are invalidated within the meaning set out in condition 3.6.7, the operator shall:
 - (a) within 28 days of becoming aware of this fact, review the causes of the invalidations and submit to the Environment Agency for approval, proposals for measures to improve the reliability of the continuous measurement systems, including a timetable for the implementation of those measures; and
 - (b) implement the approved proposals.
- 3.6.3 Continuous measurement systems on emission points from the LCP shall be subject to quality control by means of parallel measurements with reference methods at least once every calendar year.
- 3.6.4 Unless otherwise agreed in writing by the Environment Agency in accordance with condition 3.6.5 below, the operator shall carry out the methods, including the reference measurement methods, to

- use and calibrate continuous measurement systems in accordance with the appropriate CEN standards.
- 3.6.5 If CEN standards are not available, ISO standards, national or international standards which will ensure the provision of data of an equivalent scientific quality shall be used, as agreed in writing with the Environment Agency.
- 3.6.6 Where required by a condition of this permit to check the measurement equipment, the operator shall submit a report to the Environment Agency in writing, within 28 days of the completion of the check.
- 3.6.7 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3, table S3.1; the Continuous Emission Monitors shall be used such that:
 - (a) for the continuous measurement systems fitted to the LCP release points defined in Table S3.1 the validated hourly, monthly and daily averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval;
 - (b) the 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%;
 - (c) the 95% confidence interval for dust releases of a single measured result shall be taken to be 30%;
 - (d) the 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%;
 - (e) 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; and
 - (f) any day, in which more than three hourly average values are invalid shall be invalidated.

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 resource efficiency metrics set out in schedule 4 table S4.2;
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule; and
 - (d) For the following activities referenced in schedule 1, table S1.1: LCP92 (operating in open cycle mode), the hours of operation in any year.
- 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 Unless otherwise agreed in writing with the Environment Agency, within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form IED RTA1, listed in table S4.4, the information specified on the form relating to the site's mass emissions.

4.3 Notifications

- 4.3.1 In the event:
 - (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must

immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

- 4.3.2 Any information provided under condition 4.3.1 (a)(i), 4.3.1 (b)(i) where the information relates to the breach of a condition specified in the permit shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

- (c) any change in the operator's name or address; and
- (d) any steps taken with a view to the dissolution of the operator.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
 - (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 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.
- 4.3.8 The operator shall inform the Environment Agency in writing of the closure of any LCP within 28 days of the date of closure.

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 a	Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity	
A1.	Section 1.1 A(1)(a): Burning any fuel in an appliance with a rated thermal input of 50MW or more.	LCP92 (combined cycle mode):- The operation of a Combined Cycle Gas Turbine with a net rated thermal input of 102.2MW for the generation of electricity.	From receipt of natural gas to discharge of exhaust gases and the generation of electricity.	
		LCP92 (open cycle mode):- The operation of a Open Cycle Gas Turbine with a net rated thermal input of 102.2MW for the generation of electricity		
		Package Boiler (PB2):- The operation of a package boiler with a rated thermal input of 4MW for the raising of steam for various duties including start-up.		
	Directly Associated Activity			
A2.	Directly associated activity.	The operation of an open circuit water-cooled condenser.	Abstraction and discharge of river water to River Aire.	
A3.	Directly associated activity	Boiler water treatment.	The collection, pumping, filtering and treatment of water.	
A4	Directly associated activity	Surface water drainage	Handling and storage of site drainage until discharge to the site surface water system.	

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Application	The response to section B2.1 to B12 inclusive in the Application.	11/12/00	
Response to Schedule 4 Part 1 Notice	Response to Q1, Q3 to Q30	14/04/01 and 27/04/01	
Application for Variation	Section C1.2, paragraph entitled 'Cooling Water Abstraction'	09/08/02	
Response to Schedule 4 Notice for Further Information	Response to questions 1, 2, 3 and 4	15/10/02	

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Response to regulation 60(1) Notice – request for information dated 31/10/14	Compliance route and operating techniques identified in response to questions 2 (compliance route), 4 (LCP configuration), 5 (net rated thermal input), 6 (MSUL/MSDL), 9i (ELVs), 11 (monitoring requirements) – excluding the compliance routes; Transitional National Plan and Limited Hours Derogation for LCP92 and related operating techniques.	27/03/15	
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 12/05/15	Compliance route and operating techniques identified in response to questions 5 (net rated thermal input figure), 6 (MSUL/MSDL), 9 (ELV justification) and revised installation diagram.	15/06/15	
Receipt of additional information to the regulation 60(1) Notice.	Confirmation of the compliance routes chosen for LCP92	21/12/15	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC9.1	The Operator shall, within 36 months of the issue of this Permit, submit a report on potential environmental improvements to the Permitted Installation. For each of the subject areas identified in Section 2 of the appropriate technical guidance, the report shall assess the costs and benefits of alternative techniques that may provide environmental improvement. This shall include, but not be limited to, those techniques listed in guidance. The methodologies used should be based on those given in Agency guidance note E1 or its replacement, and should justify, against the BAT criteria, where potential improvements are not planned to be implemented. As part of their management system. The Operator shall submit an updated report every 36 months.	Complete
IC9.2	The Operator shall confirm, in writing, accreditation to ISO14001 certification or explain otherwise if unable to confirm.	Complete
IC9.3	Fugitive emissions shall be reviewed on an annual basis and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them.	Complete
IC9.4	 The Operator shall supply in writing a comprehensive commissioning report. This report should include but not be limited to; An assessment of releases to air as a result of operation of modes A to F. Confirmatory checks to monitor noise levels. Confirmation that drains have been inspected for proper connection. An estimation of the 'A' factor in terms of supplementary firing. 	Complete
IC9.5	The Operator shall establish a Noise Management Plan to include the consideration of noise sources of an intermittent nature or associated with safety issues such as; Routine tests Start up Operation of safety valves, blow down tanks, alarms. Maintenance of a log book detailing the dates and times of such operations.	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC9.6	The Operator shall submit a report reviewing emission limit values and the requirement for further abatement where necessary, following monitoring of air emissions and times of operation during all modes of operation.	Complete
IC9.7	The Operator shall submit details of the site closure plan as specified within the appropriate guidance.	Complete
IC9.8	The Operator shall supply, in writing to the Environment Agency, a report detailing how planned preventative maintenance, condition monitoring and performance monitoring have been developed to ensure optimised performance of the plant.	Complete
IC9.9	The Operator shall submit a report detailing the findings of an investigation into whether effluent from the gas turbine washing process can be treated in the Hickson and Welch effluent treatment plant.	Complete
IC9.10	The Operator shall supply in writing to the Environment Agency details of storage tank volumes, for all raw materials and other stored substances.	Complete
IC9.11	The Operator shall supply details, in writing, of the temporary monitors to be used prior to the monitors detailed within the original application being installed.	Complete
IC9.12	The Operator shall confirm, in writing, that the monitoring equipment detailed in the original application is installed and operating correctly.	Complete
IC9.13	The Operator shall supply in writing to the Environment Agency, details of methodology to be used to determine the gas flow in the three stacks. The details should include calculations and how and where excess oxygen levels are measured.	Complete
IC9.14	The Operator shall supply in writing to the Environment Agency, details of survey's to be carried out periodically, to assess the integrity of all bunded areas, drains and sumps.	Complete
IC9.15	The Operator shall supply, in writing to the Environment Agency, a report giving details of the steps which have been taken in order to achieve the emission limit values set out in Table 6.1.2a	Complete

Table S1.3 Improvement programme requirements			
Reference	Requirement	Date	
	The Operator shall undertake a review of the existing screening measures at the intakes and outfalls which provide and discharge water to and from the Installation. The review shall be undertaken with reference to the Eels (England and Wales) Regulations 2009 (SI 2009/3344) and the Environment Agency ""Safe Passage of Eel"" Regulatory Position Statement version 1 dated July 2012.		
IC9.16 (incorrectly identified as IC9.15 in previous variation)	 The Operator shall submit details of the arrangement suitable to meet the requirements for the safe passage of eels [of the Eels (England and Wales) Regulations 2009 (SI 2009/3344)] by either: Providing a written proposal for the installation of an eel screen. Providing a written proposal to the modification of existing screening arrangements. Providing a written response with an explanation and description of how the existing screening arrangements can be regarded to meet the requirements for the safe passage of eels [of SI 2009/3344] either without change or with mitigation measures. Providing a written response setting out a case for an exemption 	Complete	
	In all cases, the proposal shall be submitted in writing for the approval of the Environment Agency. Where appropriate, each proposal shall contain an assessment of alternative options considered including impacts on other fish species and an explanation of why the proposed option has been chosen.		
	Where installation of eel screen; modification of existing arrangements; or mitigation measures are proposed, the submission shall contain relevant timescales for installation in accordance with the Safe Passage of Eel Regulatory Position Statement version 1 dated July 2012.		
	The proposals shall be implemented in accordance with the Environment Agency's written approval.		
	The operator shall provide a report in writing to the Environment Agency for agreement which provides the net rated thermal input for LCP92. The net rated thermal input is the 'as built' value unless the plant has been modified significantly resulting in an improvement of the plant efficiency or output that increases the rated thermal input (which typically requires a performance test to demonstrate that guaranteed improvements have been realised).		
	Evidence to support this figure, in order of preference, shall be in the form of:-		
IC9.17	 a) Performance test results* during contractual guarantee testing or at commissioning (quoting the specified standards or test codes), b) Performance test results after a significant modification (quoting the specified standards or test codes), c) Manufacturer's contractual guarantee value, 	31/12/16	
	 d) Design data, e.g., nameplate rating of a boiler or design documentation for a burner system; e) Operational efficiency data as verified and used for heat accountancy purposes, f) Data provided as part of Due Diligence during acquisition, *Performance test results shall be used if these are available. 		

Table S1.3 Improvement programme requirements			
Reference	Requirement	Date	
IC9.18	For LCPD LCP147 (now LCP92 under IED). Annual emissions of dust, sulphur dioxide and oxides of nitrogen including energy usage for the year 01/01/2015 to 31/12/2015 shall be submitted to the Environment Agency using form AAE1 via the NERP Registry. If the LPCD LCP was a NERP plant the final quarter submissions shall be provided on the RTA 1 form to the NERP Registry.		
IC9.19	The Operator shall submit a report in writing to the Environment Agency which includes an assessment of the proposed ELVs for Oxides of Nitrogen for the IED Chapter III '1,500 hours derogation' compliance route. The report shall also include:- a. A review of the proposed ELVs and any amendment to those proposed ELVs based upon this assessment. b. A Best Available Technique (BAT) justification for the setting of the resulting ELVs, this should include site specific assessments. c. With reference to the Environment Agency's Horizontal Guidance Note 1, a revised site specific air impact assessment utilising the proposed monthly ELV for the long term impact and the 95 percentile ELV for the short term impact.		

Table S1.4 Start-up and Shut-down thresholds		
Emission Point and Unit Reference	"Minimum Start Up Load" Load in MW and as percent of rated power output (%)	"Minimum Shut-Down Load" Load in MW and as percent of rated power output (%)
A1 – LCP92	29.0MWe; 70%	29.0MWe; 70%
A2 – LCP92	29.0MWe; 70%	29.0MWe; 70%

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	-

Schedule 3 – Emissions and monitoring

Emission	Point source em	Source	Limit	Reference	Monitoring	Monitoring
point ref. & location	Parameter	Source	(including unit)-these limits do not apply during start up or shut down.	period	frequency	Monitoring standard or method
			60 mg/m ³ 70% to base load ¹	Monthly mean of validated hourly averages		
A1 [point A1 on site plan in schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as	LCP92 Gas turbine fired on	60 mg/m ³ 70% to base load ¹	95% of validated daily means within a calendar year	Continuous	BS EN 14181
<i>'</i> 1	NO ₂)	natural gas	120 mg/m ³ 70% to base load ¹	95% of validated hourly averages within a calendar year		
		13	50 mg/m ³ 70% to base load ¹	Monthly mean of validated hourly averages	Continuous	
	Carbon Monoxide		50 mg/m ³ 70% to base load ¹	Daily mean of validated hourly averages		BS EN 14181
schedule 7]	natural gas		100 mg/m ³ 70% to base load ¹	95% of validated hourly averages within a calendar year		
A1 [Point A1 on site plan in schedule 7]	Sulphur Dioxide	LCP92 Gas turbine fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency
A1 [Point A1 on site plan in schedule 7]	Oxygen	LCP92 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181

Emission	Point source emi	Source	Limit	Reference	Monitoring	Monitoring
point ref. & location		- Council	(including unit)-these limits do not apply during start up or shut down.	period	frequency	standard or method
A1 [Point A1 on site plan in schedule 7]	Water Vapour		-	-	Continuous	BS EN 14181
	Stack gas temperature	LCP92	-	-	As appropriate to reference	Traceable to national standards
A1 [Point	Stack gas pressure	Gas turbine fired on natural	-	-		Traceable to national standards
A1 on site plan in	Stack gas volume flow	gas	-	-	Continuous	BS EN 16911 & TGN M2
schedule 7]	411 111		-	-	Pre- operation and when there is a significant operational change	BS EN 15259
	Oxides of Nitrogen (NO and NO ₂ stace		60 mg/m ³ 70% to base load ¹	Monthly mean of validated hourly averages	Continuous	
A2 on site Nitrogen		CP92 Gas turbine by-pass stack	60 mg/m ³ 70% to base load ¹	95% of validated daily means within a calendar year		BS EN 14181
	fired on natural gas	120 mg/m ³ 70% to base load ¹	95% of validated hourly averages within a calendar year			
A2 [Point A2 on site plan in schedule 7]	Carbon	LCP92 Gas turbine by-pass	50 mg/m ³ 70% to base load ¹	Monthly mean of validated hourly averages		DQ EN 14404
	Monoxide	stack fired on natural gas	50 mg/m ³ 70% to base load ¹	Daily mean of validated hourly averages	- Continuous	BS EN 14181

	Point source emi	I		Doforonse	Monitoring	Monitoring
Emission point ref. & location	Parameter	Source	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method
A2 [Point A2 on site plan in schedule 7]	Carbon Monoxide	LCP92 Gas turbine by-pass stack fired on natural gas	100 mg/m ³ 70% to base load ¹	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A2 [Point A2 on site plan in schedule 7]	Sulphur Dioxide	LCP92 Gas turbine by-pass stack fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency
A2 [Point A2 on site plan in schedule 7]	Oxygen	LCP92 Gas turbine by-pass stack fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
	Water Vapour		-	-		BS EN 14181
	Stack gas temperature		-	-	Continuous As appropriate	Traceable to national standards
A2 [Point	Stack gas pressure	LCP92 Gas turbine	-	-	to reference	Traceable to national standards
A2 on site plan in	Stack gas volume flow	by-pass stack	-	-	Continuous	BS EN 16911 & TGN M2
schedule 7]	As required by the Method Implementation Document for BS EN 15259	fired on natural gas	-	-	Pre- operation and when there is a significant operational change	BS EN 15259
A4 [Point A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Package Boiler (PB2)	-	-	-	-
	Carbon monoxide		-	-	-	-

Note 1: This ELV applies when the load is >70% throughout the reference period.

requirements		1_		1	T	T
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
c t	Maximum discharge temperature		34 °C	Instantaneous	Continuous	Traceable to national standards
W1 (on site plan in schedule 7 emission to River Aire)	Maximum increase in discharge temperature versus abstraction temperature	Cooling water discharge	14°C	Instantaneous	Continuous	Traceable to national standards

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
S1 on site plan in schedule 7 emission to Yorkshire Water Wheldale Sewage Treatment Works.	-	Process effluent and surface drainage from the CHP plant.	-	-	-	-

Table S3.4 Annual limits (excluding start up and shut down except where otherwise stated).				
Substance	Medium	Limit (including unit)		Emission Points
		Assessment year	LCP TNP Limit	
Oxides of nitrogen	Air	01/01/16 and subsequent years until 31/12/19 01/01/20-30/06/20	Emission allowance figure shown in the TNP Register as at 30 April the following year	LCP92: A1 and A2

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data				
Parameter	Emission or monitoring point/reference	Reporting period	Period begins	
Oxides of Nitrogen				
Carbon Monoxide	A1 and A2	Every 3 months	1 January, 1 April,	
Sulphur Dioxide		Lvery 5 months	1 July, 1 October	
Emissions to water	W1			

Table S4.2: Resource Efficiency Metrics	
Parameter	Units
Electricity Exported	GWhrs
Heat Exported	GWhrs
Mechanical Power Provided	GWhrs
Fossil Fuel Energy Consumption	GWhrs
Non-Fossil Fuel Energy Consumption	GWhrs
Annual Operating Hours	hrs
Water Abstracted from Fresh Water Source	m ³
Water Abstracted from Borehole Source	m ³
Water Abstracted from Estuarine Water Source	m ³
Water Abstracted from Sea Water Source	m ³
Water Abstracted from Mains Water Source	m ³
Gross Total Water Used	m ³
Net Water Used	m ³
Hazardous Waste Transferred for Disposal at another installation	t
Hazardous Waste Transferred for Recovery at another installation	t
Non-Hazardous Waste Transferred for Disposal at another installation	t
Non-Hazardous Waste Transferred for Recovery at another installation	t
Waste recovered to Quality Protocol Specification and transferred off-site	t
Waste transferred directly off-site for use under an exemption / position statement	t

Table S4.3 Chapter III Performance parameters for reporting to DEFRA			
Parameter	Frequency of assessment	Units	
Thermal Input Capacity for LCP92		MW	
Annual Fuel Usage for LCP92		TJ	
Total Emissions to Air of NO _x for LCP92		t	
Total Emissions to Air of SO ₂ for LCP92	Annually	t	
Total Emissions to Air of Dust for LCP92		t	
Operating Hours for LCP92		hr	

Table S4.4 F	Table S4.4 Reporting forms					
Media/ parameter	Reporting format	Starting Point	Agency recipient	Date of form		
Air & Energy	Form IED AR1 – SO ₂ , NO _x and dust mass emission and energy	01/01/16	National	31/12/15		
Air	Form IED RTA1 –TNP quarterly emissions summary log	01/01/16	National	31/12/15		
LCP	Form IED HR1 – operating hours	01/01/16	National	31/12/15		
Air	Form IED CON 2 - SO ₂ , NO _x and dust concentration emissions.	01/01/16	Area Office	31/12/15		
CEMs	Form IED CEM – Invalidation Log	01/01/16	Area Office	31/12/15		
Resource Efficiency	Form REM1 – resource efficiency annual report	01/01/16	National	31/12/15		
Water	Form Water 1	01/01/16	Area Office	31/12/15		

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

Permit Number

Name of operator

Location of Facility	
Time and date of the detection	
	iny malfunction, breakdown or failure of equipment or techniques, nce not controlled by an emission limit which has caused, is pollution
To be notified within 24 hours of o	detection
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit				
To be notified within 24 hours of	detection unless otherwise specified below			
Emission point reference/ source				
Parameter(s)				
Limit				
Measured value and uncertainty				
Date and time of monitoring				
Measures taken, or intended to be taken, to stop the emission				

(c) Notification requirements for the	he detection of	any signific	ant adverse	environm	ental effect
To be notified within 24 hours of c	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 submitt	ed as soc	on as pr	acticab	le	
Part B – to be submitt Any more accurate information on the notification under Part A.		on as pr	acticab	le	
Any more accurate information on th	ne matters for	on as pr	acticab	le	
Any more accurate information on the notification under Part A. Measures taken, or intended to be taken.	ne matters for aken, to prevent aken, to rectify, environment	on as pr	acticab	le	
Any more accurate information on the notification under Part A. Measures taken, or intended to be taken a recurrence of the incident Measures taken, or intended to be taken to prevent any pollution of the elements.	ne matters for aken, to prevent aken, to rectify, environment by the emission	on as pr	acticab	le	
Any more accurate information on the notification under Part A. Measures taken, or intended to be taken a recurrence of the incident. Measures taken, or intended to be taken to incident. Measures taken, or intended to be taken to incident to prevent any pollution of the element of the element and the province of the element of the	ne matters for aken, to prevent aken, to rectify, environment by the emission	on as pr	acticab	le	
Any more accurate information on the notification under Part A. Measures taken, or intended to be taken a recurrence of the incident. Measures taken, or intended to be taken to incident. Measures taken, or intended to be taken to incident to prevent any pollution of the element of the element and the province of the element of the	ne matters for aken, to prevent aken, to rectify, environment by the emission	on as pr	acticab	le	
Any more accurate information on the notification under Part A. Measures taken, or intended to be taken a recurrence of the incident. Measures taken, or intended to be taken a limit or prevent any pollution of the ewhich has been or may be caused both the dates of any unauthorised emission facility in the preceding 24 months.	ne matters for aken, to prevent aken, to rectify, environment by the emission	on as pr	acticab	le	
Any more accurate information on the notification under Part A. Measures taken, or intended to be taken a recurrence of the incident. Measures taken, or intended to be taken a limit or prevent any pollution of the ewhich has been or may be caused both the dates of any unauthorised emission facility in the preceding 24 months. Name*	ne matters for aken, to prevent aken, to rectify, environment by the emission	on as pr	acticab	le	

Notification period

Time periods for notification following detection of a breach of a limit

Parameter

^{*} 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.

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

for emissions to surface water, the surface water quality up-gradient of the site; or

for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

"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 Commité Européen de Normalisation.

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

"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.

"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 2010 No.675 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.

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

"large combustion plant" or "LCP" is a combustion plant or group of combustion plants discharging waste gases through a common windshield or stack, where the total thermal input is 50 MW or more, based on net calorific value. The calculation of thermal input, excludes individual combustion plants with a rated thermal input below 15MW.

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

"MCR" means maximum continuous rating.

"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.

"operational hours" are whole hours commencing from the first unit ending start up and ending when the last unit commences shut down.

"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.

"TNP Register" means the register maintained by the Environment Agency in accordance with regulation 4 of the Large Combustion Plants (Transitional National Plan) Regulations 2015 SI2015 No.1973

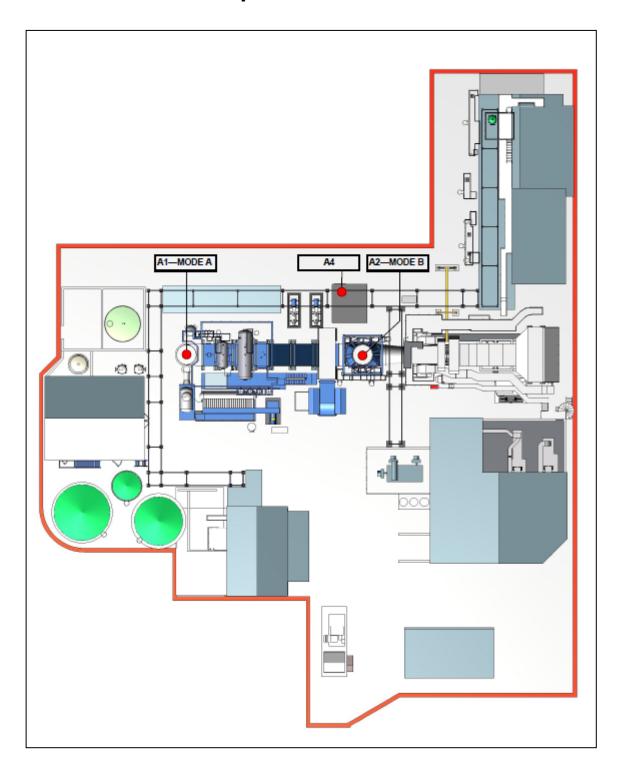
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

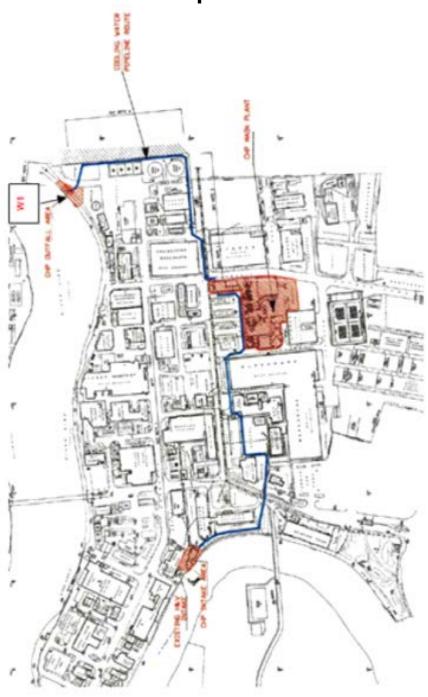
• in relation to emissions from gas turbine combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or

"year" means calendar year ending 31 December.

Schedule 7a – Site plan



Schedule 7b – Site plan



END OF PERMIT