

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Npower Cogen (Hythe) Limited

Hythe Cogen  
Cadland Road  
Hardley  
Hythe  
Southampton

## **Variation application number**

EPR/BK1732IQ/V006

## **Permit number**

EPR/BK1732IQ

# Hythe Cogen

## Permit number EPR/BK1732IQ

### Introductory note

### 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 TNP compliance route.

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

- LCP 365 is changed to LCP 269; and
- The boilers have been given a separate number of LCP 268 as they are a LDC but were included under 365.

The net thermal input of the LCP(s) is as follows: LCP 269 one 133MWth CHP and LCP 268 which comprises 4 x 20.75MWth (83MWth) gas fired boilers in one windshield.

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

The facility is a natural gas fired Combined Heat and Power (CHP) system which was designed to generate electricity and to provide steam to local industrial customers who have now closed down.

A previous variation permitted the plant to operate in the Short Term Operating Reserve (STOR)/TRIAD (defined as the three half-hours of highest demand on the GB electricity transmission system between November and February each year. This identifies peak electricity demand at three points during the winter in order to minimise energy consumption) markets, using the steam turbine to generate additional electricity.

LCP269:- This is a Combined Cycle Gas Turbine (CCGT) which operates as a CHP consisting of a combined cycle gas turbine (CCGT), a heat recovery steam generator (HRSG) and a steam turbine. The steam turbine is sized to reduce the steam pressure of the steam being supplied to customers and is not capable of using all the steam produced by the HRSG. Continuous operation of the facility in this mode (described as the partial CCGT mode) is inefficient and therefore uneconomic.

A further variation permitted Open Cycle Gas Turbine (OCGT) operation in the (STOR or TRIAD market for an anticipated maximum of 500 hrs per year as well as retaining the option to operate in CHP mode if a suitable customer for the steam can be found in the future.

The STOR market is operated by National Grid as a tool for them to match supply and demand particularly at times of rapid variations due for instance to a reduction of supply from wind turbines. Operating in these markets provides additional security to the National Grid for which the operator receives a premium payment.

Both these markets require the generating plant to be available at short notice and for this purpose OCGT operation gives a more rapid start up of approx 15 minutes compared with CCGT mode which takes typically 2-4 hours. The longer start up in CCGT mode is due to the need to slowly bring the HRSG and the steam turbine up to operating temperature.

When operating in OCGT mode the exhaust from the turbine is discharged through a 3m diameter, 25m high windshield (release point LCP269: A3) directly to atmosphere without passing through the HRSG. The by-pass design will provide for the retrospective installation of a damper system which will divert exhaust gas from the new windshield to the HRSG and therefore allow for fast alteration from one mode to the other.

Individual run times in OCGT mode are expected to be less than 2 hours.

As the plant will operate for less than 500 hour emergency operation in OCGT mode per year, in accordance with Article 30(2) Annex V Part 1 of the IED, Emission Limit Values (ELVs) will not be required but annual running hours will. As such there will be no continuous emissions monitoring installed on the new bypass windshield.

If the plant operates in CHP mode or partial CCGT mode then the IED ELVs, monitoring and reporting requirements will apply to the emissions from the HRSG (release point LCP269: A1)

LCP268:- This is a set of four gas fired boilers each with a net rated thermal input of 20.75MWth (total aggregated net rated thermal input of 83MWth). These will operate under Annex V of the IED and as such the IED ELVs, monitoring and reporting requirements will apply.

The facility also includes the use of a reverse osmosis (RO) plant to supply demineralised water for the spray intercooling power augmentation system (SPRINT), which injects water into the compressor stage inlet of the gas turbine to cool the incoming air. This increases output by 3.7 MW and efficiency by 0.7% at ambient temperatures of 12 deg C.

The schedules specify the changes made to the permit.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application received EPR/BK1732IQ/A001	Duly made 12/02/2001	As amended in letters dated 01/06/2001 and 09/08/2001.
Additional information received	Request date 06/06/2001	Responses dated 04/07/2001 and 22/10/2001.
Permit determined EPR/BK1732/IQ	24/12/2001	Permit issued to BP Energy Ltd.
Application Variation EPR/BK1732IQ/V002	Duly made 17/10/2002	Application to change company name to BP CHP (UK) Limited.
Variation determined EPR/BK1732IQ/V002	24/10/2002	Varied permit issued.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application Variation EPR/BK1732IQ/V003 (regulation 17(5) variation)	Effective 27/11/2004	Introduction of monitoring and reporting requirements for large combustion plant for compliance with the LCPD (2001/80/EC).
Application Variation EPR/BK1732IQ/V004	Duly Made 13/10/2014	Addition of liquid effluent discharge point. This variation also incorporates the changes required by the Industrial Emissions Directive.
Variation determined EPR/BK1732IQ/V004	04/03/2015	Varied permit issued to Npower Cogen (Hythe) Limited.
Application Variation EPR/BK1732IQ/V005	Duly made 10/04/2015	Application for normal variation to permit OCGT or CHP operation and installation of a demineralised water plant.
Variation determined EPR/BK1732IQ/V005 (PAS billing ref. BP3034AW)	09/07/2015	Varied permit issued.
Regulation 60 Notice sent to the Operator	18/11/2014	Issue of a Notice under Regulation 60(1) of the EPR. Environment Agency Initiated review and variation to vary and update the permit to modern conditions.
Regulation 60 Notice response	09/04/2015	Response received from the Operator.
Additional information received	30/06/2015	Response to request for further information (RFI) dated 03/06/2015.
Additional information received	23/07/2015	Response to request for further information (RFI) dated 17/07/2015.
Variation determined EPR/BK1732IQ/V006 (PAS Billing ref: BP3034AW)	21/12/2015	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/BK1732IQ**

### Issued to

**Npower Cogen (Hythe) Limited** (“the operator”)

whose registered office is

**Windmill Hill Business Park  
Whitehill Way  
Swindon  
Wiltshire  
SN5 6PB**

company registration number 04445217

to operate a regulated facility at

**Hythe Cogen  
Cadland Road  
Hardley  
Hythe  
Southampton  
SO45 3YY**

to the extent set out in the schedules.

The notice shall take effect from 01/01/2016

<b>Name</b>	<b>Date</b>
<b>Tom Swift</b>	<b>21/12/2015</b>

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/BK1732IQ**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BK1732IQ/V006 authorising,

**Npower Cogen (Hythe) Limited** (“the operator”),

whose registered office is

**Windmill Hill Business Park**

**Whitehill Way**

**Swindon**

**Wiltshire**

**SN5 6PB**

company registration number 04445217

to operate an installation at

**Hythe Cogen**

**Cadland Road**

**Hardley**

**Hythe**

**Southampton**

**SO45 3YY**

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

<b>Name</b>	<b>Date</b>
<b>Tom Swift</b>	<b>21/12/2015</b>

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 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 large combustion plant activity referenced in schedule 1, table S1.1: LCP269 (operating in open cycle mode). The activity shall not operate for more than 500 hours per year
- 2.3.6 For the following activity referenced in schedule 1, table S1.1: LCP269 and LCP268. 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
- 2.3.7 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.
- 2.3.8 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.

## **2.5 Pre-operational conditions**

- 2.5.1 The operations specified in schedule 1 table S1.4B shall not commence until the measures specified in that table have been completed].

# **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 and S3.2.
- 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 table S3.1 of a substance listed in schedule 3 table S3.4 shall not exceed the relevant limit in table S3.3.
- 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 and S3.2.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and 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 and S3.1 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 schedule 3, 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:
- 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;
  - the 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%;
  - the 95% confidence interval for dust releases of a single measured result shall be taken to be 30%;
  - the 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%;
  - 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
  - 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) where condition 2.3.5 applies 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 For the following activities referenced in schedule 1, table S1.1: LCP268 and LCP269. 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 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 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 50 megawatts or more	<p>LCP269 (combined cycle mode):- The operation of a Combined Cycle Gas Turbine with a net rated thermal input of 133MW for the generation of electricity.</p> <p>LCP 269: (open cycle mode):- The operation of a Open Cycle Gas Turbine with a net rated thermal input of 133MW for the generation of electricity</p> <p>LCP268 Hythe Package Boilers:- The operation of four gas fired boilers each with a net rated thermal input of 20.75MW for the generation of steam.</p>	<p>The operation of a gas fired combined heat and power station fired on natural gas (including gas turbine, heat recovery steam generator, electrical generator, steam turbine, package steam boilers, oil lubrication system, water treatment, air compressors, and high voltage switchgear).</p> <p>From receipt, handling and on-site storage of raw materials to despatch of products and waste.</p>
<b>Directly Associated Activity</b>			
A2	Raw material storage	Distillate Oil storage	From receipt of raw materials to dispatch for use as standby fuel for the package boilers only.
A3	Effluent treatment system	Effluent discharge via an oil interceptor to a neutralisation tank for pH correction and settlement prior to discharge to Southampton Water.	Handling and storage of site drainage until discharge to the site surface water system.
A4	Water treatment plant	Addition of boiler water chemicals and treatment of condensate by activated carbon filtration and mixed bed ion exchange.	From receipt of raw materials to dispatch to effluent treatment system.
A5	Diesel powered fire pump	Production of pressurised water for fire fighting.	Day tank of diesel fuel located above banded base of package unit.
A6	Reverse osmosis water treatment plant	Production of demineralised water from town's water supply.	From receipt of raw materials to discharge to effluent treatment and storage of demineralised

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
			water.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to questions 2.3 given in section 2.3 of the application.	12/02/2001 (as amended by letter dated 01/06/2001)
Response to Schedule 4 Part 1 Notice.	Response to questions 5, 9 and 10.	04/07/2001
Additional information	Letter (ref. 10352/0001) and attachments.	23/10/2001
Variation application EPR/BK1732IQ/V004	The response to question 3 in Application Form EPC Part C3 given in Sections 1, 2, 3, 4, 5 and 6 of the Supporting Information to the Application.	13/10/2014
Variation application EPR/BK1732IQ/V005	The response to question 3 in Application Form EPC Part C3 given in sections 1 to 11 of the Permit Variation Supporting Information and including the response dated March 2015 to the Regulation 60 Notice.	10/04/2015
Response to regulation 60(1) Notice – request for information dated 31/10/14	Compliance route(s) and operating techniques identified in response to questions 2 (Compliance routes), 4 (Configuration of LCP), 5 (Net rated thermal input), 6 (Minimum start up and shut down load)  Excluding compliance route TNP for LCP 268 and 269 and related operating techniques	Received 31/03/2015
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 03/06/2015	Compliance route(s) and operating techniques identified in response to questions 2( Compliance routes), 4(configuration of LCP's)	Received 30/06/2015
Receipt of additional information to the regulation 60(1) Notice	Compliance route(s) and operating techniques identified in response to questions 2. ( Compliance routes), 4(configuration of LCP's).	Received 03/12/2015
Receipt of additional information to the regulation 60(1) Notice.	Confirmation of the compliance routes chosen for LCP 268 and 269	Received 21/12/2015

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
9.1	The Operator shall submit a report to the Environment Agency on the progress towards certification to ISO14001 having regard to section 2.1 of the relevant IPPC Sectoral or other Technical Guidance. The report shall include timescales to implement such a system.	31/12/02 Complete



<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
9.2	The Operator shall submit a report to the Environment Agency on measures to be adopted to minimise the duration of start-up and shutdown periods for the CHP plant and package boilers.	Within 12 months of the start of hot commissioning Complete
9.3	The Operator shall submit a report to the Environment Agency justifying in terms of BAT fitting CEM to the package boilers if the total number of operational hours above a 30% load factor is greater than 2000 hours in any calendar year.	Complete
9.4	The Operator shall submit a Site Closure Plan in accordance with Environment Agency guidance.	31/12/04 Complete
9.5	The Operator shall submit a commissioning report to the Environment Agency. This shall include comparison of performance against Permit Conditions.	Within 4 months of the start of hot commissioning. Complete
9.6	The Operator shall install and commence operation and used of continuous emission monitors for oxides of nitrogen on release point A1. Alternatively, the Operator may provide an undertaking to eth Agency not to operate the combustion plant for more than 10,000 operational hours starting from 27 November 2004.	27/11/2004 Completed
9.7	The Operator shall install and commence operation and use of continuous monitors for exhaust gas oxygen concentration, temperature, pressure and water vapour content on realise points listed in 9.6.	27/11/2004 Completed
9.8 (renumbered from IC 9.6 dated 9/07/15)	The operator shall submit an updated Site Condition Report that includes the new envelope of land now included within the site boundary as a result of the Application for Variation EPR/BK1732IQ/V004. As a minimum the report must include, for the new land area, baseline soil and groundwater reference data, but generally in line with the Environment Agency's H5 guidance.	31/07/2015 Completed
9.9 (renumbered from IC 9.7 dated 9/07/15)	The operator shall review the potential for customers in the area who could be supplied with steam from the facility. A report of the results of the review shall be submitted to the Environment Agency. The review shall be repeated every 2 years and reported to the Environment Agency within 2 months of each review.	31/12/2015  Every 2 years
IC10	For LCPD LCP 365 (now LCP 268 and 269 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.'	28/01/2016

<b>Table S1.4A Pre-operational measures</b>		
<b>Reference</b>	<b>Pre-operational measures</b>	<b>Date</b>
PO1	<p>The Operator shall submit a report in writing to the Environment Agency for acceptance. The report shall define and provide a written justification of the “minimum start up load” and “minimum shut-down load”, for LCP 268 as required by the Implementing Decision 2012/249/EU in terms of:</p> <p>At least three criteria (operational parameters and / or discrete processes as detailed in the Annex) or equivalent operational parameters that suit the technical characteristics of the plant, which can be met at the end of start-up or start of shut-down as detailed in Article (9) 2012/249/EU.</p>	Before start of commissioning

<b>Table S1.5 Start-up and Shut-down thresholds</b>		
<b>Emission Point and Unit Reference</b>	<b>“Minimum start up load” Load in MW and as percent of rated power output (%)</b>	<b>“Minimum shut-down load” Load in MW and as percent of rated power output (%)</b>
A2: LCP268 Boilers 1,2,3,4	To be agreed in writing by the Environment Agency, following the outcome of improvement condition PO1	To be agreed in writing by the Environment Agency, following the outcome of improvement condition PO1
A3: LCP269 (OCGT mode)	5 MWe, 10.8%	5 MWe, 10.8%
A1: LCP269 (CHP mode)	34.5MW 75%	34.5MW 75%

## 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

Table S3.1 Point source emissions to air						
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
A1 [Point A1 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP269 Gas turbine fired on natural gas	60 mg/m <sup>3</sup>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1[Point A1 on site plan in schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP269 Gas turbine fired on natural gas	60 mg/ m <sup>3</sup>	95% of validated daily means within a calendar year	Continuous	BS EN 14181
A1[Point A1 on site plan in schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP269 Gas turbine fired on natural gas	120mg/ m <sup>3</sup>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1[Point A1 on site plan in schedule 7]	Carbon Monoxide	LCP269 Gas turbine fired on natural gas	50 mg/ m <sup>3</sup>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1[Point A1 on site plan in schedule 7]	Carbon Monoxide	LCP269 Gas turbine fired on natural gas	50 mg/ m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1[Point A1 on site plan in schedule 7]	Carbon Monoxide	LCP269 Gas turbine fired on natural gas	100 mg/ m <sup>3</sup>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1 [Point A1 on site plan in schedule 7]	Sulphur dioxide	LCP269 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	Oxygen	LCP269 Gas turbine fired on	-	-	Continuous As appropriate to	BS EN 14181

Table S3.1 Point source emissions to air						
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
7]		natural gas			reference	
A1[Point A1 on site plan in schedule 7]	Water Vapour	LCP269 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	BS EN 14181
A1[Point A1 on site plan in schedule 7]	Stack gas temperature	LCP269 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	Traceable to national standards
A1[Point A1 on site plan in schedule 7]	Stack gas pressure	LCP269 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	Traceable to national standards
A1 [Point A1 on site plan in schedule 7]	-As required by the Method Implementation Document for BS EN 15259	LCP269 Gas turbine fired on natural gas	-	-	Pre-operation and when there is a significant operational change	BS EN 15259
A2[Point A2 on site plan in schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP268 Boiler plant fired on natural gas	140 mg/ m <sup>3</sup>	-	At least every 6 months	BS EN 14792
A2[Point A2 on site plan in schedule 7]	Carbon Monoxide	LCP268 Boiler plant fired on natural gas.	60 mg/ m <sup>3</sup>	-	At least every 6 months	BS EN 15058
A2 [Point A2 on site plan in schedule 7]	Sulphur dioxide	LCP268 Boiler plant fired on natural gas	35mg/m3	-	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]	Dust	LCP268 Boiler plant fired on natural gas	5mg/m3	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency
A2[Point A2 on site plan	Oxygen	LCP268 Boiler plant	-		Periodic As	BS EN 14789

<b>Table S3.1 Point source emissions to air</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)-these limits do not apply during start up or shut down.</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
in schedule 7]		fired on natural gas			appropriate to reference	
A2[Point A2 on site plan in schedule 7]	Water Vapour	LCP268 Boiler plant fired on natural gas	-		Periodic As appropriate to reference	BS EN 14790
A2[Point A2 on site plan in schedule 7]	-As required by the Method Implementation Document for BS EN 15259	LCP268 Boiler plant fired on natural gas	-	-	Pre-operation and when there is a significant operational change	BS EN 15259
A3 [Point A3 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) <sup>3</sup>	LCP269 Gas turbine by-pass stack fired on natural gas	-	-	Concentration by calculation, every 4380 operational hours or 2 years, whichever is sooner.	Agreed in writing with the Environment Agency
A3 [Point A3 on site plan in schedule 7]	Sulphur dioxide <sup>3</sup>	LCP269 Gas turbine by-pass stack fired on natural gas	-	-	Concentration by calculation, every 4380 operational hours or 2 years, whichever is sooner.	Agreed in writing with the Environment Agency
A3 [Point A3 on site plan in schedule 7]	CO <sup>3</sup>	LCP269 Gas turbine by-pass stack fired on natural gas	-	-	Concentration by calculation, every 4380 operational hours or 2 years, whichever is sooner.	Agreed in writing with the Environment Agency

Note 3: Operating for less than 500 hours per year.

<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 site plan in schedule 7, emission to The Solent)	Total suspended solids	Effluent Treatment plant	200 mg/l	Spot sample	Weekly	Gravimetric
W1 (on site plan in schedule 7, emission to The Solent)	pH	Effluent Treatment plant	6-9	Spot sample	Weekly	BS6068-2.50
W1 (on site plan in schedule 7, emission to The Solent)	Temperature	Effluent treatment plant	30°C	Spot sample	Weekly	Mercury in glass thermometer

<b>Table S3.3 Annual limits (excluding start up and shut down except where otherwise stated).</b>				
<b>Substance</b>	<b>Medium</b>	<b>Limit (including unit)</b>		<b>Emission Points</b>
Dust, Sulphur dioxide and Oxides of nitrogen	Air	Assessment year	LCP TNP Limit	LCP 268
		01/01/16 and subsequent years until 31/12/19	Emission allowance figure shown in the TNP Register as at 30 April the following year	LCP269
		01/01/20-30/06/20		

## 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	A1, A2, A3	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
		Every 6 months for periodic monitoring	1 January, 1 July
		Every 4380 hours or 2 years whichever is sooner for <500hr plant	1 January
Carbon Monoxide	A1, A2, A3,	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
		Every 6 months for periodic monitoring	1 January, 1 July
		Every 4380 hours or 2 years whichever is sooner for <500hr plant	1 January
Sulphur dioxide	A1, A2, A3,	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
		Every 6 months for periodic monitoring	1 January, 1 July
		Every 4380 hours or 2 years whichever is sooner for <500hr plant	1 January
Dust	A1, A2, A3,	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
		Every 6 months for periodic monitoring	1 January, 1 July
Emissions to Water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July



<b>Parameter</b>	<b>Units</b>
Electricity Exported	GWhr
Heat Exported	GWhr
Mechanical Power Provided	GWhr
Fossil Fuel Energy Consumption	GWhr
Non-Fossil Fuel Energy Consumption	GWhr
Annual Operating Hours	hr
Water Abstracted from Fresh Water Source	m <sup>3</sup>
Water Abstracted from Borehole Source	m <sup>3</sup>
Water Abstracted from Estuarine Water Source	m <sup>3</sup>
Water Abstracted from Sea Water Source	m <sup>3</sup>
Water Abstracted from Mains Water Source	m <sup>3</sup>
Gross Total Water Used	m <sup>3</sup>
Net Water Used	m <sup>3</sup>
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

<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Thermal Input Capacity for each LCP	Annually	MW
Annual Fuel Usage for each LCP	Annually	TJ
Total Emissions to Air of NO <sub>x</sub> for each LCP	Annually	t
Total Emissions to Air of SO <sub>2</sub> for each LCP	Annually	t
Total Emissions to Air of Dust for each LCP	Annually	t
Operating Hours for each LCP	Annually	hr

<b>Media/ parameter</b>	<b>Reporting format</b>	<b>Starting Point</b>	<b>Agency recipient</b>	<b>Date of form</b>
Air & Energy	Form IED AR1 – SO <sub>2</sub> , NO <sub>x</sub> and dust mass emission and energy	01/01/16	National	31/12/15

<b>Table S4.4 Reporting forms</b>				
<b>Media/ parameter</b>	<b>Reporting format</b>	<b>Starting Point</b>	<b>Agency recipient</b>	<b>Date of form</b>
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 – continuous monitoring	01/01/16	Area Office	31/12/15
CEMs	Form IED CEM – Invalidation Log	01/01/16	Area Office	31/12/15
Air	Form IED PM1 - discontinuous monitoring and load.	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 or other form as agreed in writing by the Environment Agency	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	

<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	
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.

“Air Quality Risk Assessment” has the meaning given in Annex D of IED Compliance Protocol for Utility Boilers and Gas Turbines.

“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 Comité 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.

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

“emissions to land” includes emissions to groundwater.

“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.

“Mid-merit” means combustion plant operating between 1,500 and 4,000 hrs/yr.

“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.

“SI” means site inspector.

“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 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 or compression 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



SWP Status: Drawn	DATE 2014	BY B
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<p><b>BWE</b></p> <p>BWE Generation UK Ltd          T +44 (0) 1392 / 49 36 18          Swansea Drawing Office F +44 (0) 1392 / 49 25 25          Hythe Chip Business Park          Hythe          Wiltshire SN6 6PH          UK</p>		
Scale of original A3	Scale of original 1:2500	
<p>Site: HYTHE CHP</p>		
<p>Title: SITE BOUNDARY AND OUTFALL</p>		
Status	NOT APPROVED	
Drawing number	CGD/HYTC14/BP4	

END OF PERMIT

Permit number  
EPR/BK1732IQ