

# Notice of variation and consolidation with introductory note

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

---

SSEPG (Operations) Limited  
Chickerell Generation Plant  
Off Radipole Lane  
Chickerell  
Weymouth  
Dorset  
DT4 9WW

### **Variation application number**

EPR/FP3230LM/V004

### **Permit number**

EPR/FP3230LM

# Chickerell Generation Plant

## Permit number EPR/FP3230LM

### Introductory note

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

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

Schedule 2 of the notice comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

Article 21(3) of the Industrial Emissions Directive (IED) requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. We have reviewed the permit for this installation against the revised BAT Conclusions for the large combustion plant sector published on 17<sup>th</sup> August 2017. Only activities covered by this BAT Reference Document have been reviewed and assessed.

This variation makes the below changes following the review under Article 21(3) of the Industrial Emissions Directive (IED) and the consolidation of the Environmental Permitting Regulations that came into force on the 4 January 2017:

- Revised emission limits and monitoring requirements for emissions to air applicable from 17 August 2021 in table S3.1a;
- An improvement condition requiring a plan characterising the fuel to be in place by 2021; and
- Inclusion of process monitoring for energy efficiency in table S3.5.
- Permit condition 2.3.10 has been included in the permit in relation to black start operation of the installation. Corresponding improvement condition IC11 requires the operator to submit a report in relation to potential black start operation of the plant.

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

The Operator has chosen to operate this LCP under the Transitional National Plan (TNP) compliance route.

The LCP reference is LCP 295

The combustion plant consists of an open cycle gas turbine (OCGT) utilising an aero-derivative engine with a thermal rated input of 134 MW. The plant is strategically embedded at a primary distribution node for the local area electricity supply, producing electricity at times of high demand and is capable of being despatched at short notice from a remote 24-hour manned control room. Under normal operation the OCGT uses natural gas as the primary fuel to produce electricity from the expansion of the exhaust gases during combustion with a restriction of <1500 hours per year. The plant may also use distillate fuel oil (DFO) as a stand-by for up to 500 hours a year.

The OCGT comprises an axial flow compressor, a multi-stage turbine, support systems, combustion system components and a turning device. The generator is driven from the compressor end of the machine. Ambient air is drawn through an air inlet filter house, is filtered to remove dust particles from the atmosphere, before being compressed in the multi-stage axial flow compressor section of the machine. The dust remains in the filters, which are changed periodically according to condition and performance. From here the air flows to the combustion system where it is mixed with the fuel and ignited by spark plugs. The high temperature gas is expanded through the turbine section of the machine and is absorbed as useful energy and used to drive the generator to create electrical power. After passing through the turbine, the hot gas is directed through the 25 meter stack to atmosphere. Emission reduction techniques include injection of demineralised water to reduce

the formation of oxides of nitrogen from the gas turbines and increase the efficiency of the OCGT, and the use of low sulphur DFO. The overall plant efficiency during 2005 was 34.6% (net CV) against a design value of 36.1%. Also included in the combustion activity is the cooling system for the generator, which uses a water glycol mix in a closed loop cooling system with force draft fans.

Directly associated activities include a distillate fuel oil storage and handling, water treatment storage tanks and plant, electricity sub-stations and a switch house. The water treatment process uses water from the public supply and through a process utilising activated charcoal filtration beds, reverse osmosis, anion and mixed bed resins, produces the required water quality. Process effluent from the water treatment plant is discharged to the Wessex Water foul sewer. Uncontaminated surface water run-off is discharged to the culverted Chickerell Stream via a penstock valve and an oil/water interceptor.

There are a number of SSSIs within 2 km of the site, the nearest of which being Crookhill Brick Pit, Chafreys Lake and Radipole Lake. There are also three European sites within 10km of the site, being Crookhill Brick Pit; Chesil Beach and the Fleet; and Isle of Portland to Studland Cliffs. Assessment by the Agency has indicated that emissions from the installation are unlikely to have a significant impact on any of the designated sites.

The Operator is part of the EU Emissions Trading Scheme. The Operator has a comprehensive environmental management system in place, which is externally accredited. Noise and odour are not considered to be an issue for this installation.

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>
SSEPG (Operations) Ltd	20/10/97	IPC AY7097
Application FP3230LM	30/11/06	Permit issued
Regulation 60 Notice sent to the Operator	11/12/14	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
Variation	21/12/15	Notice issued
Regulation 60 Notice response	30/03/15	Response received from the Operator.
Additional information received	07/09/15	Response to request for further information (RFI) dated 15/06/15
Additional information received	02/10/15	Conformation of standby fuel firing requirement, received by e mail
Additional information received	21/12/15	Conformation of compliance route chosen
Variation determined EPR/FP3230LM/V003 (PAS Billing ref: RP3238AY)	21/12/15	Varied and consolidated permit issued in modern condition format. Variation effective from 01/01/2016.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Regulation 61 Notice sent to the Operator	01/05/18	Issue of a Notice under Regulation 61(1) of the EPR. Environment Agency initiated review and variation to vary the permit under IED to implement Chapter II following the publication of the revised Best Available Techniques (BAT) Reference Document for large combustion plant.
Regulation 61 Notice response.	01/11/18	Response received from the Operator.
Variation determined EPR/FP3230LM/V004 (Billing ref:KP3608PH )	07/04/20	Varied and consolidated permit issued. Effective from 07/04/20

End of introductory note

# The Environmental Permitting (England and Wales) Regulations 2016

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

## Permit number

**EPR/FP3230LM**

## Issued to

**SSEPG (Operations) Limited** (“the operator”)

whose registered office is

**No.1 Forbury Place  
43 Forbury Road  
Reading  
Berkshire  
RG1 3JH**

company registration number 2764438

to operate a regulated facility at

**Chickerell Generation Plant  
Off Radipole Lane  
Chickerell  
Weymouth  
Dorset  
DT4 9WW**

to the extent set out in the schedules.

The notice shall take effect from 07/04/2020

<b>Name</b>	<b>Date</b>
<b>David Griffiths</b>	<b>07/04/2020</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 2016

### Permit number

**EPR/FP3230LM**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3230LM/V004 authorising,

**SSEPG (Operations) Limited** (“the operator”),

whose registered office is

**No.1 Forbury Place**

**43 Forbury Road**

**Reading**

**Berkshire**

**RG1 3JH**

company registration number 2764438

to operate a regulated facility at

**Chickerell Generation Plant**

**Off Radipole Lane**

**Chickerell**

**Weymouth**

**Dorset**

**DT4 9WW**

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

<b>Name</b>	<b>Date</b>
<b>David Griffiths</b>	<b>07/04/2020</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 For the following activities referenced in schedule 1, table S1.1: LCP295. The activities shall be operated in accordance with the “Electricity Supply Industry IED Compliance Protocol for Utility Boilers and Gas Turbines” dated December 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: LCP295. Standby fuel distillate fuel oil (DFO) may be used but for no more than 500 hours per year.
- 2.3.6 For the following activities referenced in schedule 1, table S1.1: LCP295, operating in open cycle mode. The activities shall operate for less than 1,500 hours per year as a rolling average over a period of five years with a maximum of 2,250 hours operated in any one year in line with Section 4.0 of Version 5.1: The Protocol for IED Annex V 1500 Limited Hours Derogation July 2015 or any later version.
- 2.3.7 For the following activities referenced in schedule 1, table S1.1: LCP295. 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.
- 2.3.8 For the following activities referenced in schedule 1, table S1.1: LCP295. The effective Dry Low NOx threshold shall conform to the specifications set out in Schedule 1, tables S1.2 and S1.5.
- 2.3.9 For the following activities referenced in Schedule 1, table S1.1: LCP295. The following conditions apply where there is a malfunction or breakdown of any abatement equipment:  
Unless otherwise agreed in writing by the environment agency:
- (i) If a return to normal operations is not achieved with 24 hours, the operator shall reduce or close down operations, (or shall operate the activities using low polluting fuels);

(ii) The cumulative duration of breakdown in any 12-month period shall not exceed 120 hours and

(iii) The cumulative duration of malfunction in any 12-month period shall not exceed 120 hours

2.3.10 The emission limit values from emission point AR1 listed in tables S3.1 and S3.1a of Schedule 3 following the issue of a Black Start Instruction by the National Grid shall be disregarded for the purposes of compliance whilst that instruction remains effective and in accordance with the report submitted in response to improvement condition IC11.

2.3.11 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.

2.3.12 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, S3.1a, S3.2 and S3.3.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 The emission values from emission point A1 listed in schedule 3 tables S3.1 and S3.1a, measured during periods of abatement equipment malfunction and breakdown shall be disregarded for the purposes of compliance with tables S3.1 and S3.1a emission limit values.

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, S3.1a, S3.2 and S3.3;
- (b) annual limits specified in table S3.4; and
- (c) process monitoring specified in table S3.5.

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 S3.1a, unless otherwise agreed in writing by the Environment Agency.

### **3.6 Monitoring for Large Combustion Plant**

- 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 and the Large Combustion Plant Best Available Techniques Conclusions.
- 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(s) S3.1 and S3.1a; the Continuous Emission Monitors shall be used such that:
- (a) for the continuous measurement systems fitted to the LCP release points defined in table(s) S3.1 and S3.1a the validated hourly, monthly, daily and yearly 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. 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.
- (d) where condition 2.3.7 applies the hours of operation in any year;
- (e) where condition 2.3.5 applies, the start date and time, and the days and hours of operation for each period of standby fuel operation;
- (f) where condition 2.3.9 applies, the hours of operation;

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 the following activities referenced in schedule 1, table S1.1: LCP295. 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 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.

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);

- (f) any change in the operator's name(s) or address(es); and
  - (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) 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

<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>
AR1	Section 1.1 A (1) (a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.	LCP295: Operation of an open cycle gas turbine (OCGT) burning natural gas/gas oil to produce electricity	From receipt of natural gas or gas oil to discharge of exhaust gases, and the generation of electricity.
<b>Directly Associated Activity</b>			
AR2	Directly associated activity	Distillate Fuel Oil storage	From receipt of raw materials to dispatch for use.
AR3	Directly associated activity	Water treatment	From receipt of raw materials to dispatch to public foul sewer.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to sections 2.1, 2.2 and 2.10, excluding 2.10.4.1, in the Application.	29/03/06
Response to regulation 60(1) Notice – request for information dated 11/12/14	Compliance routes and operating techniques identified in response to questions :- 2 -The compliance route selected for each LCP. 4 - The configuration of each LCP. 10- Monitoring requirements when the LCPs are fired on fuel other than Natural Gas.	Received 30/03/15
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 15/06/15	Compliance routes and operating techniques identified in response to questions :- 5- The net rated Thermal input of the LCP and the method by which it was derived. 6- The definition of the conditions that will define the start-up and shutdown points. 9- The proposed Emission Limit Values.	Received 07/09/15
Receipt of additional information to the regulation 60(1) Notice.	Confirmation of the compliance routes chosen for LCP 295	Received 21/12/15



<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Response to regulation 61(1) Notice – request for information dated 01/05/18 EPR/FP3230LM/V004	Compliance and operating techniques identified in response to the BAT Conclusions for large combustion plant published on 17th August 2017.	01/11/19
Additional information in response to regulation 61(1) Notice EPR/FP3230LM/V004	Confirmation of operation modes, via email OCGT burning natural gas ,1500hrs/year and OCGT burning fuel oil <500hrs/year.	06/02/20

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	The Operator shall undertake a written review the techniques used to minimise the environmental risks associated with the delivery of distillate fuel oil. The review shall identify improvements and shall include a timetable of actions. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the programme. The timetable of actions shall be implemented by the Operator from the date of approval in writing by the Agency.	Complete
IC2	The Operator shall submit in writing details of the method for the determination of sulphur dioxide and dust from emission point A1 including details of the verification of the suitability of such a method.	Complete
IC3	The Operator shall review (and provide a report in writing detailing the conclusions of the review) the continuous emission monitoring systems (CEMS) against the standard outlined in "Performance Standards for Continuous Emission Monitoring Systems: Performance standards for gaseous emissions, particulates, temperature, pressure and flow rate Environment Agency, Version 2, Revision 1, April 2003". The review shall identify improvements and shall include a timetable of actions. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the programme. The timetable of actions shall be implemented by the Operator from the date of approval in writing by the Agency.	Complete
IC4	The Operator shall propose a programme in writing for the repair of the bitumen seals associated with hard standing and the distillate fuel oil bund. The programme shall include a timetable of actions. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the programme. The programme shall be implemented by the Operator from the date of approval in writing by the Agency.	Complete
IC5	The Operator shall propose a programme in writing for the repair of the cracks in the floor of the distillate fuel oil bund and areas of hardstanding. The programme shall include a timetable of actions. The programme shall be implemented by the Operator from the date of approval in writing by the Agency.	Complete

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC6	<p>The Operator shall carry out a waste and water minimisation audit of the installation. The assessment shall have regard to the Agency Combustion Technical Guidance Note, Section 2.4.2. The audit report shall provide information on any lines and operations identified as causing a process loss, specifying for each, the amount lost (tonnes/year) and the percentage recovered in process or recycled. A summary of the audit shall be sent to the Agency in writing together with a timetable to implement any necessary changes identified. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the summary.</p> <p>The changes identified shall be implemented by the operator from the date of approval by the Agency.</p>	Complete
IC7	<p>The operator shall provide a report in writing to the Environment Agency for approval which provides the net rated thermal input for LCP295 for the present plant configuration allowing for any plant changes that may have taken place. Evidence to support this figure shall be in the form of either:-</p> <p>a) Commissioning test results;</p> <p>b) The latest efficiency test results, to recognised standards;( such as EN 12952-15 or ASME PTC 46); or</p> <p>c) Operational efficiency data as verified and used for heat accountancy purposes ; or</p> <p>d) Manufacturer's guarantee; or</p> <p>e) Data provided as part of Due Diligence during acquisition.</p>	Complete
IC 8	<p>'For LCPD LCP 276 (now LCP 295 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</p>	Complete
IC9	<p>The Operator shall submit a report in writing to the Environment Agency for approval. The report shall define an output load or operational parameters and provide a written justification for when the dry low NO<sub>x</sub> operation is effective. The report shall also include the NO<sub>x</sub> profile through effective dry low NO<sub>x</sub> to 70% and then to full load.</p>	Within 4 months of the completion of commissioning
IC10	<p>The operator shall submit a procedure for approval outlining how the Distillate fuel Oil will be characterised in line with Best Available Techniques Conclusion 9 in order to improve general performance of combustion and to reduce emissions to air. The procedure must include, but is not limited to, the following elements:</p> <p>i) Initial fuel characterisation;</p> <p>ii) Regular testing of the fuel quality to check that it is consistent with the initial characterisation and according to the plant design specifications; and</p> <p>Subsequent adjustments of the plant settings as and when needed and practicable.</p>	01/06/21

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC11	<p>A written report shall be submitted to the Environment Agency for approval. The report shall contain an impact assessment demonstrating that there is no significant environmental risk associated with black start operations and propose a methodology for minimisation of environmental impact during such a period of operation and for reporting instances of black start operation.</p> <p>The plant can be operated as set out in condition 2.3.10 of the permit once the report has been approved by the Environment Agency. The methodology for operation and reporting set out in the report shall be implemented by the Operator from the date of approval by the Environment Agency.</p>	12 months from issue of variation FP3230LM/V004

<b>Table S1.4 Start-up and Shut-down thresholds</b>		
<b>Emission Point and Unit Reference</b>	<b>“Minimum Start-Up Load” Load in MWe and as percent of rated power output (%)</b>	<b>“Minimum Shut-Down Load” Load in MWe and as percent of rated power output (%)</b>
AR1 LCP295	32MWe; 70%	32 MWe; 70%

<b>Table S1.5 Dry Low NOx effective definition</b>	
<b>Emission Point and Unit Reference</b>	<b>Dry Low NOx effective definition Load in MW and as percent of rated power output (%) or when two of the criteria listed below for the LCP or unit have been met, whichever is soonest</b>
AR1 LCP295	To be agreed in writing with the Environment Agency, following the outcome of improvement condition IC9 in table S3.1.

## Schedule 2 – Raw materials and fuels

<b>Table S2.1 Raw materials and fuels</b>	
<b>Raw materials and fuel description</b>	<b>Specification</b>
Natural Gas	-
Distillate fuel oil	Not exceeding 0.1% w/w sulphur

## Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air - emission limits and monitoring requirements shall apply until 16 August 2021						
Emission point ref. & location	Source	Parameter	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, LCP 295, on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	55 mg/m <sup>3</sup> 70% to baseload	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1 [Point A1, LCP 295, on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	60 mg/m <sup>3</sup> 70% to baseload  60 mg/m <sup>3</sup> MSUL/MSDL to baseload	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1 [point A1, LCP 295, on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	110 mg/m <sup>3</sup> 70% to baseload	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Carbon Monoxide	100 mg/m <sup>3</sup> 70% to baseload	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Carbon Monoxide	110 mg/m <sup>3</sup> 70% to baseload  110 mg/m <sup>3</sup> MSUL/MSDL to baseload	Daily mean of validated hourly averages	Continuous	BS EN 14181

**Table S3.1 Point source emissions to air - emission limits and monitoring requirements shall apply until 16 August 2021**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Carbon Monoxide	200 mg/m <sup>3</sup> 70% to baseload	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1 [Point A1 on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on distillate fuel oil	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	110 mg/m <sup>3</sup>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1 [Point A1 on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on distillate fuel oil	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	125 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1 [Point A1 on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on distillate fuel oil	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	225 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]	LCP No. 295 Gas turbine fired distillate fuel oil	Carbon Monoxide	135 mg/m <sup>3</sup>	Monthly mean of validated hourly averages	Continuous	BS EN 14181

**Table S3.1 Point source emissions to air - emission limits and monitoring requirements shall apply until 16 August 2021**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired distillate fuel oil	Carbon Monoxide	150 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired distillate fuel oil	Carbon Monoxide	270 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]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Sulphur dioxide	-	-	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]	LCP No. 295 Gas turbine fired on distillate fuel oil	Dust	-	-	Continuous	BS EN 14181
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Oxygen	-	-	Continuous As appropriate to reference or as agreed in writing by the Environment Agency	BS EN 14181

**Table S3.1 Point source emissions to air - emission limits and monitoring requirements shall apply until 16 August 2021**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Water Vapour	-	-	Continuous As appropriate to reference or as agreed in writing by the Environment Agency	BS EN 14181
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Stack gas volume flow	-	-	Continuous As appropriate to reference or as agreed in writing by the Environment Agency	BS EN 16911 & TGN M2
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Stack gas temperature	-	-	Continuous As appropriate to reference or as agreed in writing by the Environment Agency	Traceable to national standards
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Stack gas pressure	-	-	Continuous As appropriate to reference or as agreed in writing by the Environment Agency	Traceable to national standards



<b>Table S3.1 Point source emissions to air - emission limits and monitoring requirements shall apply until 16 August 2021</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	As required by the method implementation Document for BS EN 15259	-	-	Pre-operation and when there is a significant operational change	BS EN 15259

<b>Table S3.1a Point source emissions to air - emission limits and monitoring requirements shall apply from 17 August 2021</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [Point A1, LCP 295, on site plan in Schedule 7]	LCP No. 295 OCGT Gas turbine fired on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	55mg/m <sup>3</sup> DLN effective to baseload <small>Note 2</small>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1 [Point A1, LCP 295, on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	60 mg/m <sup>3</sup> DLN effective to baseload <small>Note 2</small>	Daily mean of validated hourly averages	Continuous	BS EN 14181
			60 mg/m <sup>3</sup> MSUL/MSDL to baseload <small>Note 1</small>			

**Table S3.1a Point source emissions to air - emission limits and monitoring requirements shall apply from 17 August 2021**

Emission point ref. & location	Source	Parameter	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, LCP 295, on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	110 mg/m <sup>3</sup> DLN effective to baseload <small>Note 2</small>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Carbon Monoxide	100 mg/m <sup>3</sup> DLN effective to baseload <small>Note 2</small>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Carbon Monoxide	110 mg/m <sup>3</sup> DLN effective to baseload <small>Note 2</small>	Daily mean of validated hourly averages	Continuous	BS EN 14181
			110 mg/m <sup>3</sup> MSUL/MSDL to baseload <small>Note 1</small>			
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas	Carbon Monoxide	200 mg/m <sup>3</sup> DLN effective to baseload <small>Note 2</small>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1 [Point A1 on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on distillate fuel oil	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	110 mg/m <sup>3</sup>	Monthly mean of validated hourly averages	Continuous	BS EN 14181

**Table S3.1a Point source emissions to air - emission limits and monitoring requirements shall apply from 17 August 2021**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [Point A1 on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on distillate fuel oil	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	125 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1 [Point A1 on site plan in Schedule 7]	LCP No. 295 Gas turbine fired on distillate fuel oil	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	225 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]	LCP No. 295 Gas turbine fired distillate fuel oil	Carbon Monoxide	135 mg/m <sup>3</sup>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired distillate fuel oil	Carbon Monoxide	150 mg/m <sup>3</sup>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1 [point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired distillate fuel oil	Carbon Monoxide	270 mg/m <sup>3</sup>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181

**Table S3.1a Point source emissions to air - emission limits and monitoring requirements shall apply from 17 August 2021**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Sulphur dioxide	-	-	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]	LCP No. 295 Gas turbine fired on distillate fuel oil	Dust	10 mg/m <sup>3</sup>	Daily average or average over the sampling period	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]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Oxygen	-	-	Continuous As appropriate to reference or as otherwise agreed in writing by the Environment Agency	BS EN 14181
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Water vapour	-	-	Continuous As appropriate to reference or as otherwise agreed in writing by the Environment Agency	BS EN 14181

**Table S3.1a Point source emissions to air - emission limits and monitoring requirements shall apply from 17 August 2021**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</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>
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Flow	-	-	Continuous As appropriate to reference or as otherwise agreed in writing by the Environment Agency	EN ISO 16911
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Stack gas temperature	-	-	Continuous As appropriate to reference or as otherwise agreed in writing by the Environment Agency	Traceable to national standards
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	Stack gas pressure	-	-	Continuous As appropriate to reference or as otherwise agreed in writing by the Environment Agency	Traceable to national standards
A1 [Point A1 on site plan in schedule 7]	LCP No. 295 Gas turbine fired on natural gas and distillate fuel oil	As required by the method implementation Document for BS EN 15259	-	-	Pre-operation and when there is a significant operational change	BS EN 15259

Note 1: This ELV applies when the load varies between MSUL/MSDL and base load during the daily reference period. MSUL and MSDL are defined in Table S1.4 of this permit.

Note 2: This ELV applies when DLN is effective as defined in Table S1.5 of this permit.

<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	Oil or grease	Surface water run-off via an oil/water interceptor	No visible emission	Any sample	Monthly	Visual check. Permanent sampling access not required

<b>Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site–emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
S1 on site plan in Schedule 7	No Parameters set	Site water treatment plant	-	-	-	Permanent sampling access not required

<b>Table S3.4 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 295
		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	
		01/01/20-30/06/20		

<b>Table S3.5 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
A1 (A1, LCP 295 shown in Site plan in schedule 7)	Operational hours on Natural Gas	Continuous	Excluding start up and shutdown	Reported annually
A1 (A1, LCP 295 shown in Site plan in schedule 7)	Operational hours on Distillate fuel oil	Continuous	Excluding start up and shutdown	Reported annually
A1 (A1, LCP295 shown in Site plan in schedule 7)	Operational hours in start-up and shutdown	Continuous	-	Reported annually

<b>Table S3.5 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
LCPD 295	Net electrical efficiency	After each modification which that could significantly affect these parameters	EN Standards or equivalent	-

## 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	Every 3 months	1 January, 1 April, 1 July, 1 October
Carbon Monoxide	A1	Every 3 months	1 January, 1 April, 1 July, 1 October
Sulphur dioxide	A1	Every 6 months for periodic monitoring	1 January, 1 July,
Dust	A1	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
Operating hours on Natural Gas	A1	Annually	1 January
Operating hours on Distillate Fuel Oil	A1	Annually	1 January
Operating hours (in start up and shutdown )	A1	Annually	1 January
Year to date distillate fuel operating hours(from start up to shutdown)	A1	Annually	1 January,

<b>Table S4.2 Resource Efficiency Metrics</b>	
<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



<b>Table S4.2 Resource Efficiency Metrics</b>	
<b>Parameter</b>	<b>Units</b>
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>Table S4.3 Large Combustion Plant Performance parameters for reporting to DEFRA</b>		
<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>Table S4.4 Reporting forms</b>			
<b>Media/ parameter</b>	<b>Reporting format</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	National and Area Office	As agreed in writing with the Environment Agency
Air	Form IED RTA1 – TNP quarterly emissions summary log	National and Area Office	As agreed in writing with the Environment Agency
LCP	Form IED HR1 – operating hours For all LCPs	National and Area Office	As agreed in writing with the Environment Agency
Air	Form IED CON 2 – continuous monitoring	Area Office	As agreed in writing with the Environment Agency
CEMs	Form IED CEM – Invalidation Log	Area Office	As agreed in writing with the Environment Agency
Resource Efficiency	Form REM1 – resource efficiency annual report	National and Area Office	As agreed in writing with the Environment Agency

<b>Table S4.4 Reporting forms</b>			
<b>Media/ parameter</b>	<b>Reporting format</b>	<b>Agency recipient</b>	<b>Date of form</b>
Water	Form water 1 or other form as agreed in writing by the Environment Agency	Area Office	As agreed in writing with the Environment Agency
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	Area Office	As agreed in writing with the Environment Agency

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

## Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

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

<b>(c) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

## Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

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

\* authorised to sign on behalf of the operator

“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.

“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.

“Black Start” means the procedure to recover from a total or partial shutdown of the UK Transmission System which has caused an extensive loss of supplies. This entails isolated power stations being started individually and gradually being reconnected to other power stations and substations in order to form an interconnected system again.

“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.

“commissioning” means testing of the installation that involves any operation of a Large Combustion Plant referenced in schedule 1, table S1.1 or as agreed with the Environment Agency.

“daily average” means the average over a period of 24 hours of validated hourly averages obtained by continuous measurements.

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

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“emissions to land” includes emissions to groundwater.

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

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“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.

“Net electrical efficiency” means the ratio between the net electrical output (electricity produced minus the imported energy) and the fuel/feedstock energy input (as the fuel/feedstock lower heating value) at the combustion unit boundary over a given period of time.

“Net mechanical energy efficiency” means the ratio between the mechanical power at load coupling and the thermal power supplied by the fuel.

“Net total fuel utilisation” means the ratio between the net produced energy minus the imported electrical and/or thermal energy and the fuel/feedstock energy input at the gasification unit boundary over a given period of time.

“non-emergency plant” means a plant which provides balancing services or demand side response services.

“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.

“SI” means site inspector.

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

“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.

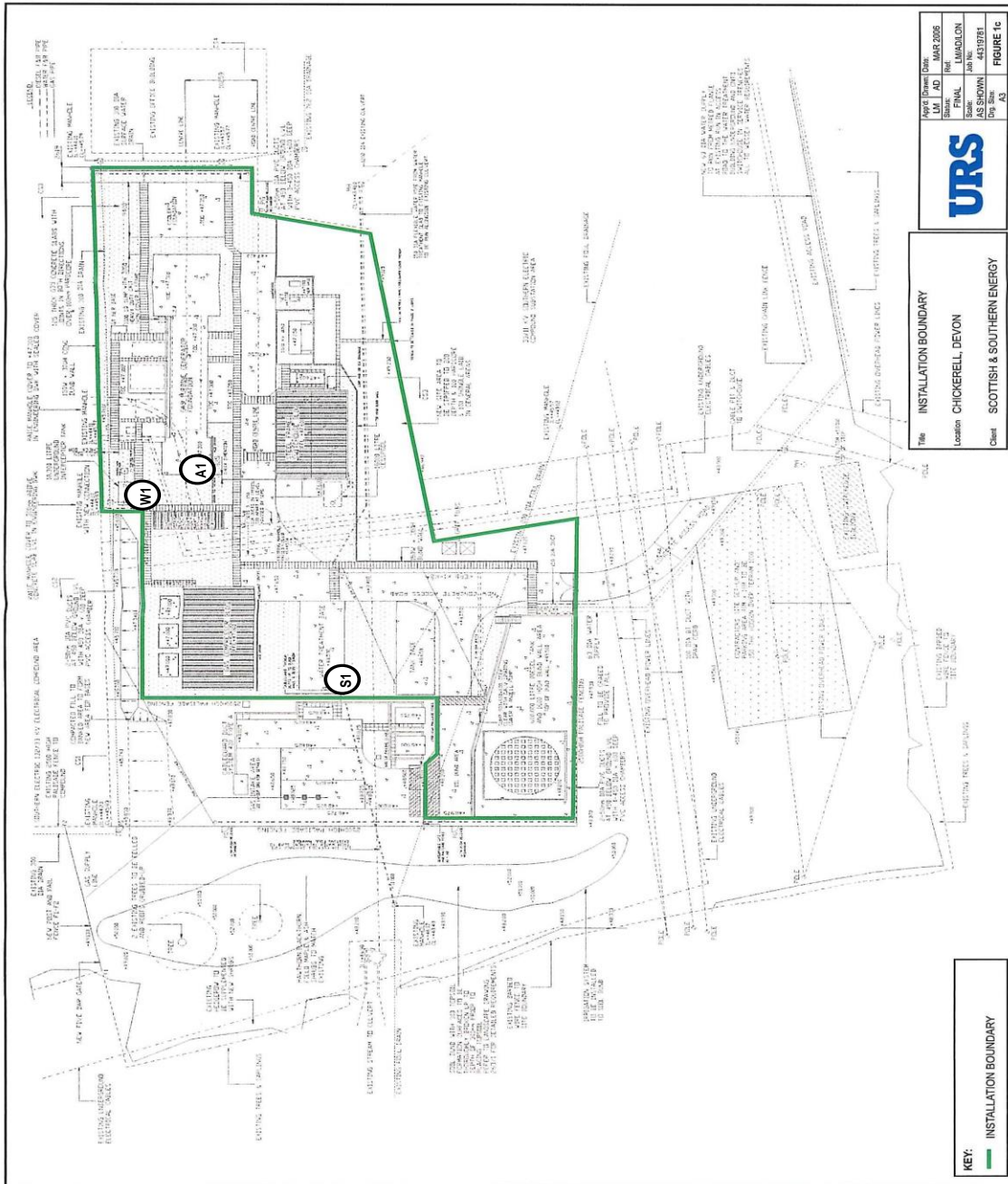
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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.

“yearly average” means the average over a period of one year of validated hourly averages obtained by continuous measurements.

# Schedule 7 – Site plan



END OF PERMIT

Permit number  
 EPR/FP3230LM/V004