

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

RWE Generation UK Plc
Staythorpe C Power Station
Staythorpe
Newark
Nottingham
NG23 5PS

Variation application number

EPR/VP3538XX/V004

Permit number

EPR/VP3538XX

Staythorpe C Power Station

Permit number EPR/VP3538XX

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 ELV compliance route.

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

- LCP 409 is changed to LCP 333;
- LCP 410 is changed to LCP 334;
- LCP 411 is changed to LCP 335; and
- LCP 412 is changed to LCP 336.

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

Staythorpe C Power Station is a gas-fired combined cycle gas turbine (CCGT) power station operated by RWE Generation UK Plc. The site covers an area of 19 hectares and is centred at National Grid Reference SK 7651 5353.

It is located within a semi rural agricultural area of Nottinghamshire, and to the north-west of the River Trent. The nearest residential areas are the villages of Staythorpe and Averham (1.5km north-west). The town of Newark-on-Trent lies to the east of the site at a distance of about 3 km and to the south-east lies the village of Farndon at about 1.5km. The site is bounded to the north by the Lincoln to Nottingham railway.

The site is underlain by Alluvium and River Terrace Gravels classified as minor aquifers and further underlain by impermeable Mercia Mudstone classified as a non-aquifer. There are seven licensed groundwater abstractions within 2 km of the site none of which are used as a public water supply.

The principal activity is listed under Section 1.1 A(1)(a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more. This comprises four units each having a thermal input of 756MW and each capable of a maximum production output of around 446MW of electricity at reference conditions when fired on natural gas. Each unit consists of one natural gas fired/ standby distillate fuel oil gas turbine (296MW of electricity (GT26)) and a steam turbine (150MW of electricity), at reference conditions, which are both connected via a single shaft to a hydrogen-cooled electricity generator.

The hot combustion gases from the gas turbines are released, via dedicated heat recovery steam generators (HRSG's), to the atmosphere through four x 75 metre high stacks. (LCP stacks 333 (A1), 334 (A2), 335 (A3) and 336 (A4).

There are four diesel driven emergency electricity generators (one per unit) and one diesel driven firewater pump.

Expanded low-pressure steam from each steam turbine passes to a condenser where it condenses and returns to the process as HRSG feed water. Recirculating cooling water supplied to the condensers is itself cooled in one of four independent banks of low level forced draught hybrid cooling towers designed to minimise the creation of visible plumes of water vapour.

Boiler make up water is abstracted from the cooling water make up intake bay and is further purified in a reverse osmosis demineralisation plant. Water treatment chemicals such as sodium hypochlorite, sulphuric acid, caustic soda and ferric chloride are stored in banded bulk tanks on site. There are also small banded storage facilities for intermediate bulk containers of aqueous solutions of hydrazine and ammonia used for corrosion inhibition of the steam circuit.

Staythorpe C Power Station was required to meet the relevant provisions of the Large Combustion Plant Directive (LCPD) for new gas turbines at the time of permit issue.

The main emissions to air from the activities regulated by this permit are:

- Oxides of nitrogen (NOx) comprising nitric oxide and nitrogen dioxide created by the chemical combination of atmospheric oxygen and nitrogen in the high temperature combustion zone of the gas turbine. Creation is minimised by the use of sequential dry low NOx combustors when firing on gas and water injection when operating on standby distillate fuel oil
- Carbon monoxide (CO) from incomplete fuel combustion.

As well as carbon dioxide, water is a main product of combustion released from the stacks. Occasionally during periods of high atmospheric relative humidity when combined with low temperature water vapour may condense and form a visible plume.

The releases to air are monitored continuously and substances measured include NOx and CO along with other parameters, which measure combustion performance such as temperature and oxygen content. Continuous Emission Monitors (CEM's) are required to meet the Agency's standards contained in its published monitoring guidance.

Cooling water is abstracted from the River Trent to replace cooling tower evaporation and purge losses. Surface and other site drainage water, boiler water blow-down and raw water treatment plant discharges are checked for compliance with emission limits prior to final release back to the River Trent, along with the cooling tower purge, downstream of the abstraction point.

There are no consented releases to groundwater or sewer from the activities on this site.

Most main items of equipment, with potential to generate noise, are housed within buildings, which provide a high level of acoustic attenuation.

Natural gas is supplied without odorant from the national gas grid and distillate fuel oil is delivered by road and stored in two banded tanks each of 20,000 m³. The site is limited to a maximum of 720 hrs operation each year using distillate fuel oil.

There are no sites protected under the Conservation (Natural Habitats, &c) Regulations 1994 (SI 1994 No. 2716) (Natura 2000) within 10 km of the site and no Sites of Special Scientific Interest protected under the Countryside and Rights of Way Act 2000 within 2 km of the site. The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application received	Duly made 01/02/08	Application for 3000MW thermal input Power Station
Request for further information	13/05/08	Received 07/07/08
Request for further information	31/07/08	Received 19/09/08
Request for further information	29/09/08	Received 06/10/08
Additional information received	05/09/08	
Additional information received	25/11/08	

Status log of the permit		
Description	Date	Comments
Additional information received	12/12/08	
Additional information received	14/12/08	
Additional information received	18/12/08	
Additional information received	07/01/09	
Additional information received	24/02/09	
Permit determined EPR/VP3538XX (PAS Billing ref. VP3538XX)	10/03/09	Permit issued to RWE npower plc.
Variation determined EPR/VP3538XX/V002 (PAS Billing ref: VP3438CG)	26/02/13	Environment Agency Initiated Variation, to incorporate Eel Regulations improvement condition.
Notified of change of company name	13/11/14	Name changed to RWE Generation UK Plc.
Variation issued EPR/VP3538XX/V003 (PAS Billing ref: UP3932WP)	02/12/14	Varied permit issued to RWE Generation UK Plc.
Regulation 60 Notice sent to the Operator	31/10/14	Issue of a Notice under Regulation 60(1) of the EPR. Environment Agency Initiated review and variation to vary and update the permit to modern conditions.
Regulation 60 Notice response	31/03/15	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.
Additional information received	14/07/15	Response to request for further information (RFI) dated 15/06/15.
Additional information received	09/10/15	Response to request for further information (RFI) dated 30/07/15.
Variation determined EPR/VP3538XX/V004 (PAS Billing ref: JP3738AQ	18/12/15	Varied and consolidated permit issued in modern condition format. Variation effective from 01/01/2016.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
RWE Generation UK Plc	3/28/64/122/S	27/06/07
RWE generation UK Plc (Greenhouse Gas Emissions Permit)	GB-EA-ETC02-1398	17/01/08

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/VP3538XX

Issued to

RWE Generation UK Plc (“the operator”)

whose registered office is

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

company registration number 03892782

to operate a regulated facility at

**Staythorpe C Power Station
Staythorpe
Newark
Nottingham
NG23 5PS**

to the extent set out in the schedules.

The notice shall take effect from 01/01/2016

Name	Date
J Linton	18/12/2015

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/VP3538XX

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/VP3538XX/V004 authorising,

RWE Generation UK Plc (“the operator”),

whose registered office is

Windmill Hill Business Park

Whitehill Way

Swindon

Wiltshire

SN5 6PB

company registration number 03892782

to operate an installation at

Staythorpe C Power Station

Staythorpe

Newark

Nottingham

NG23 5PS

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

Name	Date
J Linton	18/12/2015

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 red 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 Standby fuel (distillate fuel oil) may be used but for no more than 720 hours per year.
- 2.3.6 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 activities shall not be brought into operation until the measures specified in schedule 1 table S1.5 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 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 S3.2 unless otherwise agreed in writing by the Environment Agency.

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

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

use and calibrate continuous measurement systems in accordance with the appropriate CEN standards.

- 3.6.5 If CEN standards are not available, ISO standards, national or international standards which will ensure the provision of data of an equivalent scientific quality shall be used, as agreed in writing with the Environment Agency.
- 3.6.6 Where required by a condition of this permit to check the measurement equipment, the operator shall submit a report to the Environment Agency in writing, within 28 days of the completion of the check.
- 3.6.7 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3, table S3.1; the Continuous Emission Monitors shall be used such that:
- (a) for the continuous measurement systems fitted to the LCP release points defined in Table S3.1 the validated hourly, monthly and daily averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval;
 - (b) the 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%;
 - (c) the 95% confidence interval for dust releases of a single measured result shall be taken to be 30%;
 - (d) the 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%;
 - (e) an invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system. However, to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least two thirds of the period (40 minutes). Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing; and
 - (f) any day, in which more than three hourly average values are invalid shall be invalidated.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the resource efficiency metrics set out in schedule 4 table S4.2; and
 - (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 2.3.5 applies, the start date and time, and the days and hours of operation for each period of standby fuel 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.

4.3 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) and 4.3.1 (b)(i) where the information relates to the breach of a condition specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (c) any change in the operator's name or address; and
 - (d) any steps taken with a view to the dissolution of the operator.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.
- 4.3.8 The operator shall inform the Environment Agency in writing of the closure of any LCP within 28 days of the date of closure.

4.4 Interpretation

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

Schedule 1 – Operations

Table S1.1 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>LCP333: 756MWth GT for production of electricity and steam.</p> <p>LCP334: 756MWth GT for production of electricity and steam.</p> <p>LCP335: 756MWth GT for production of electricity and steam.</p> <p>LCP336: 756MWth GT for production of electricity and steam.</p> <p>Diesel emergency electricity generators (x4 units 1.6 MWth each)</p> <p>AGI heaters (x2 units 1.0 MWth each)</p>	<p>From receipt of natural gas or gas oil through to the discharge of combustion gases from the stacks and export of steam.</p> <p>From receipt of distillate fuel oil through to the discharge of combustion gases from the stacks.</p> <p>From the receipt of gas through to the discharge of combustion gases from the stacks.</p>
Directly Associated Activity			
A2	Directly associated activity	Fuel and chemical storage	From receipt of raw materials to dispatch for use.
A3	Directly associated activity	Pressure reduction and cleaning systems for natural gas	From receipt of gas to dispatch for use.
A4	Directly associated activity	The generation and export of electricity	The receipt of steam at the steam turbines to discharge of boiler blowdown to cooling water purge, condensate return to HRSGs and the direct generation of electricity from the GT's and export to the national grid.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A5	Directly associated activity	Evaporative cooling	From abstraction from the River Trent to discharge of cooling water purge back to the River Trent.
A6	Directly associated activity	Water purification	From receipt of untreated river water to despatch for use in HRSG's to discharge or regeneration effluent to cooling water purge and transfer of filter pressing to waste storage.
A7	Directly associated activity	Surface water drainage	From rainwater collection system, oily water separators, sumps and drains to cooling water purge.
A8	Directly associated activity	Waste handling and storage	From waste generation, storage and monitoring to waste dispatch.
A9	Directly associated activity	Diesel fire pump	From receipt of distillate fuel oil through to the discharge of combustion gases from the exhaust.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The responses to section B2.1 and B2.2 in the Application except where superseded by further information listed below.	01/02/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	07/07/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	05/09/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	19/09/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	06/10/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	25/11/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	12/12/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	14/12/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	18/12/08
Receipt of information additional to the application	Miscellaneous supplementary information except where superseded by further information listed below.	07/01/09
Receipt of additional information to the application	Miscellaneous supplementary information .	24/02/09
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 route), 4 (configuration of LCP's), 5 (net rated thermal input), 6 (start up and shut down) and 11 (monitoring).	Received 31/03/2015
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 15/06/15	Compliance route(s) and operating techniques identified in response to questions 2 (compliance route), 5 (net rated thermal input) and 6 (start up and shut down).	Received 14/07/2015

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	A written report shall be submitted to the Agency. The report shall include the results of the commissioning, providing details of the performance of the installations against the conditions of this Permit and a summary of how any changes to the information referred to in Table S1.2 of this permit have been implemented to comply with the permit condition 4.3.6	Complete
IC2	The Operator shall develop and implement an Environmental Management System in accordance with the requirements of the Combustion Technical Guidance Note and shall notify the Agency once implemented. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the notification.	Complete
IC3	A written report shall be submitted to the Agency. The report shall include the results of noise surveys in accordance with the Combustion Technical Guidance Note and the Horizontal Guidance for Noise H3 Parts 1 and 2 and where appropriate, the report shall contain an assessment of whether there are more appropriate measures that could be taken to prevent, or where that is not practicable, to minimise noise from the activities covered by this permit. The report shall also contain a timescale for the implementation of any individual measures identified as appropriate following the review. The approved individual measures shall be implemented from the date of approval or such other date as may be specified in that approval.	Complete
IC4	A written report shall be submitted to the Agency. The report shall include the results of an assessment of whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution for the activities covered by this permit. The report shall be in sufficient detail to allow a permit review. The report shall also contain a timescale for the implementation of individual measures identified to improve the performance of the installation, including emission control performance, ad appropriate following the review. The approved individual measures shall be implemented from the date of approval or such other date as may be specified in that approval.	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC5	<p>The Operator shall undertake a review of the existing screening measures at the intakes and outfalls which provide and discharge water to and from the Installation. The review shall be undertaken with reference to the Eels (England and Wales) Regulations 2009 (SI 2009/3344) and the Environment Agency "Safe Passage of Eel" Regulatory Position Statement version 1 dated July 2012.</p> <p>The Operator shall submit details of the arrangement suitable to meet the requirements for the safe passage of eels [of the Eels (England and Wales) Regulations 2009 (SI 2009/3344)] by either:-</p> <ul style="list-style-type: none"> • Providing a written proposal for the installation of an eel screen. • Providing a written proposal to the modification of existing screening arrangements. • Providing a written response with an explanation and description of how the existing screening arrangements can be regarded to meet the requirements for the safe passage of eels [of SI 2009/3344] either without change or with mitigation measures. • Providing a written response setting out a case for an exemption <p>In all cases, the proposal shall be submitted in writing for the approval of the Environment Agency. Where appropriate, each proposal shall contain an assessment of alternative options considered including impacts on other fish species and an explanation of why the proposed option has been chosen.</p> <p>Where installation of eel screen; modification of existing arrangements; or mitigation measures are proposed, the submission shall contain relevant timescales for installation in accordance with the Safe Passage of Eel Regulatory Position Statement version 1 dated July 2012.</p> <p>The proposals shall be implemented in accordance with the Environment Agency's written approval.</p>	Complete
IC6	<p>'For LCPD LCP 409, 410, 411 and 412 (now LCP 333, 334, 335 and 336 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 LCPD LCP was a NERP plant the final quarter submissions shall be provided on the RTA 1 form to the NERP Registry.'</p>	28/01/16

Table S1.4 Start-up and Shut-down thresholds		
Emission Point and Unit Reference	“Minimum start up load” Load in MW and as percent of rated power output (%) and discrete processes	“Minimum shut-down load” Load in MW and as percent of rated power output (%) and discrete processes
A1, A2, A3 & A4	189MW; 42%	189MW; 42%
A1, A2, A3 & A4	Steam turbine speed over 2800rpm; Steam turbine bypass valve closed and steam turbine inlet stop valve open; steam turbine clutch engaged.	Steam turbine speed below 2800rpm; Steam turbine bypass valve open and steam turbine inlet stop valve closed; steam turbine clutch disengaged.

Table S1.5 Pre-operational measures	
Reference	Pre-operational measures
P001*	<p>At least two months (or such other date as agreed in writing by the Agency) before any fuel is burned in the installation, a written commissioning plan shall be submitted to the Agency. The plan shall include written procedures containing actions to be taken to ensure that appropriate measures will be used to minimise releases under all anticipated operating conditions.</p> <p>The approved commissioning plan shall be implemented from the date of approval or such other date as may be specified in that approval.</p>
P002*	<p>At least two months (or such other date as agreed in writing by the Agency) before any fuel is burned in the installation, a written site protection and monitoring programme (SPMP) shall be submitted to the Agency. The programme should comply with the requirements of Horizontal Guidance Notes H7 and H8 (Guidance on the protection of land).</p> <p>No more than four months (or such other date as agreed in writing by the Agency) following the submission of the SPMP any site reference data identified in the SPMP shall be collected and submitted to the Agency.</p> <p>The approved SPMP shall be implemented from the date of approval or such other date as may be specified in that approval</p>
P003*	<p>At least two months (or such other date as agreed in writing by the Agency) before any fuel is burned in the installation, a written site closure plan shall be submitted to the Agency to demonstrate that the installation can be decommissioned to avoid any pollution risk and the site of operation returned into a satisfactory state. The plan should comply with the requirements of the Combustion Technical Guidance Note and Horizontal Guidance Note H8 (Guidance on the protection of land).</p> <p>The approved site closure plan shall be implemented from the date of approval or such other date as may be specified in that approval.</p>
P004*	<p>At least two months (or such other date as agreed in writing by the Agency) before any fuel is burned in the installation, a written accident management plan shall be submitted to the Agency. The plan should comply with the requirements the Combustion Technical Guidance Note.</p> <p>The approved accident management plan shall be implemented from the date of approval or such other date as may be specified in that approval</p>
P005*	<p>At least two months (or such other date as agreed in writing by the Agency) before any fuel is burned in the installation, a written fugitive emissions management plan shall be submitted to the Agency, detailing the measures to be used to control fugitive emissions and shall be accordance with the Combustion Technical Guidance Note and Box 5 of Horizontal Guidance Note H7 (Guidance on the protection of land). Note that all point source releases to air listed in table S4.1 for which emission limit values have not been set are to be treated as fugitive releases.</p> <p>The approved fugitive emissions management plan shall be implemented from the date of approval or such other date as may be specified in that approval.</p>
P006*	<p>At least two months (or such other date as agreed in writing by the Agency) before any fuel is burned in the installation a written noise and vibration management plan shall be submitted to the Agency, detailing the measures to be used to control emissions of noise and shall be accordance with Appendix 4 (noise management plan) of Horizontal Guidance Note H3 (Horizontal Noise Guidance) Part 2).</p> <p>The approved noise and vibration management plan shall be implemented from the date of approval or such other date as may be specified in that approval.</p>

* All pre-operational measures are complete.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas oil	Not exceeding 0.1% w/w sulphur content

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, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	50 mg/m ³	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	50 mg/m ³ 70% to base load ¹ 60 mg/m ³ MSUL/MSDL to base load ²	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	50 mg/m ³	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Carbon Monoxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	100 mg/m ³	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Carbon Monoxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	100 mg/m ³ 70% to base load ¹ 200 mg/m ³ MSUL/MSDL to base load ²	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Carbon Monoxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	100 mg/m ³	95% of validated hourly averages within a calendar year	Continuous	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
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Sulphur dioxide	LCP No.333, 334, 335 and 336 Gas turbine fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxygen	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Water Vapour	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Stack gas temperature	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	-	-	Continuous As appropriate to reference	Traceable to national standards
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Stack gas pressure	LCP No. 333, 334, 335 and 336; Gas turbines fired on natural gas	-	-	Continuous As appropriate to reference	Traceable to national standards
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	As required by the Method Implementation Document for BS EN 15259		-	-	Pre-operation and when there is a significant operational change	BS EN 15259

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, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	90 mg/m ³	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	99 mg/m ³	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	180 mg/m ³	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Carbon Monoxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	100 mg/m ³	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Carbon Monoxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	110 mg/m ³	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Carbon Monoxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	200 mg/m ³	95% of validated hourly averages within a calendar year	Continuous	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
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Sulphur dioxide	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	-	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Dust	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	-	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Oxygen	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	-	-	Continuous As appropriate to reference	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Water Vapour	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	-	-	Continuous As appropriate to reference	BS EN 14181
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Stack gas temperature	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	-	-	Continuous As appropriate to reference	Traceable to national standards
A1, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	Stack gas pressure	LCP No. 333, 334, 335 and 336; Gas turbines fired on oil	-	-	Continuous As appropriate to reference	Traceable to national standards

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, A2, A3 and A4 [Points A1, A2, A3 and A4 on site plan in Schedule 7]	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 is >70% throughout the reference period.

Note 2: 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.

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1 release to River Trent at NGR 476943, 353500	Flow	Cooling water purge, boiler water blowdown, water treatment plant effluent and site surface water	74,500m ³ per day	Daily average	Continuous	Flowmeter MCERTS
	Flow		32,000m ³ per day	Annual average of daily averages		
	Temperature summer*		32 deg C	Daily average		
	Temperature winter**		25 deg C			
	Total residual oxidant (as chlorine)		0.10 mg/l	Spot		Proprietary instrument
	pH		5-9 (inclusive)			BS6068 2.50:
	Oil and grease		No visible oil ¹	Daily	Visual check	

*summer is from 01 May to 30 September

**winter is from 01 October to 30 April

¹ Oil and grease to be non-visible on the surface of the receiving waters in the immediate vicinity of the release point.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Oxides of Nitrogen	A1, A2, A3, A4,	Every 3 months	1 January, 1 April, 1 July, 1 October
Carbon Monoxide	A1, A2, A3, A4,	Every 3 months	1 January, 1 April, 1 July, 1 October
Sulphur Dioxide	A1, A2, A3, A4,	Every 6 months	1 January, 1 July,
Dust	A1, A2, A3, A4,	Every 6 months	1 January, 1 July,
Emissions to water-sampling and analysis results	W1	Every 6 months	1 January, 1 July,
Mass emission data, water to River Trent	W1	Every 6 months	1 January, 1 July,

Table S4.2: Resource Efficiency Metrics	
Parameter	Units
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 ³
Water Abstracted from Borehole Source	m ³
Water Abstracted from Estuarine Water Source	m ³
Water Abstracted from Sea Water Source	m ³
Water Abstracted from Mains Water Source	m ³
Gross Total Water Used	m ³
Net Water Used	m ³
Hazardous Waste Transferred for Disposal at another installation	t
Hazardous Waste Transferred for Recovery at another installation	t
Non-Hazardous Waste Transferred for Disposal at another installation	t
Non-Hazardous Waste Transferred for Recovery at another installation	t
Waste recovered to Quality Protocol Specification and transferred off-site	t
Waste transferred directly off-site for use under an exemption / position statement	t

Parameter	Frequency of assessment	Units
Thermal Input Capacity for each LCP	Annually	MW
Annual Fuel Usage for each LCP	Annually	TJ
Total Emissions to Air of NO _x for each LCP	Annually	t
Total Emissions to Air of SO ₂ for each LCP	Annually	t
Total Emissions to Air of dust for each LCP	Annually	t
Operating hours for each LCP	Annually	hr

Media/ parameter	Reporting format	Starting Point	Agency recipient	Date of form
LCP	Form IED HR1 – operating hours	01/01/16	National & Area Office	31/12/15
Air & Energy	Form IED AR1 – SO ₂ , NO _x and dust mass emission and energy	01/01/16	National & Area Office	31/12/15
Air	Form IED CON 2 – continuous monitoring	01/01/16	Area Office	31/12/15
Air	Form IED CON 2 - SO ₂ , NO _x and dust concentration emissions and operating hours >70% load.	01/01/16	Area Office	31/12/15
Air	Form IED CEM1 continuous measurement systems 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	Area and National Office	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
Water	Form water 2 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	EPR/VP3538XX
Name of operator	RWE Generation UK Plc
Location of Facility	Staythorpe C Power Station
Time and date of the detection	

(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	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* 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.

“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.

“breakdown” has the meaning given in the ESI IED Compliance Protocol for Utility Boilers and Gas Turbines.

“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_x 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.

“hazardous property” has the meaning given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

“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.

“malfunction” has the meaning given in the ESI IED Compliance Protocol for Utility Boilers and Gas Turbines.

“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.

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

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

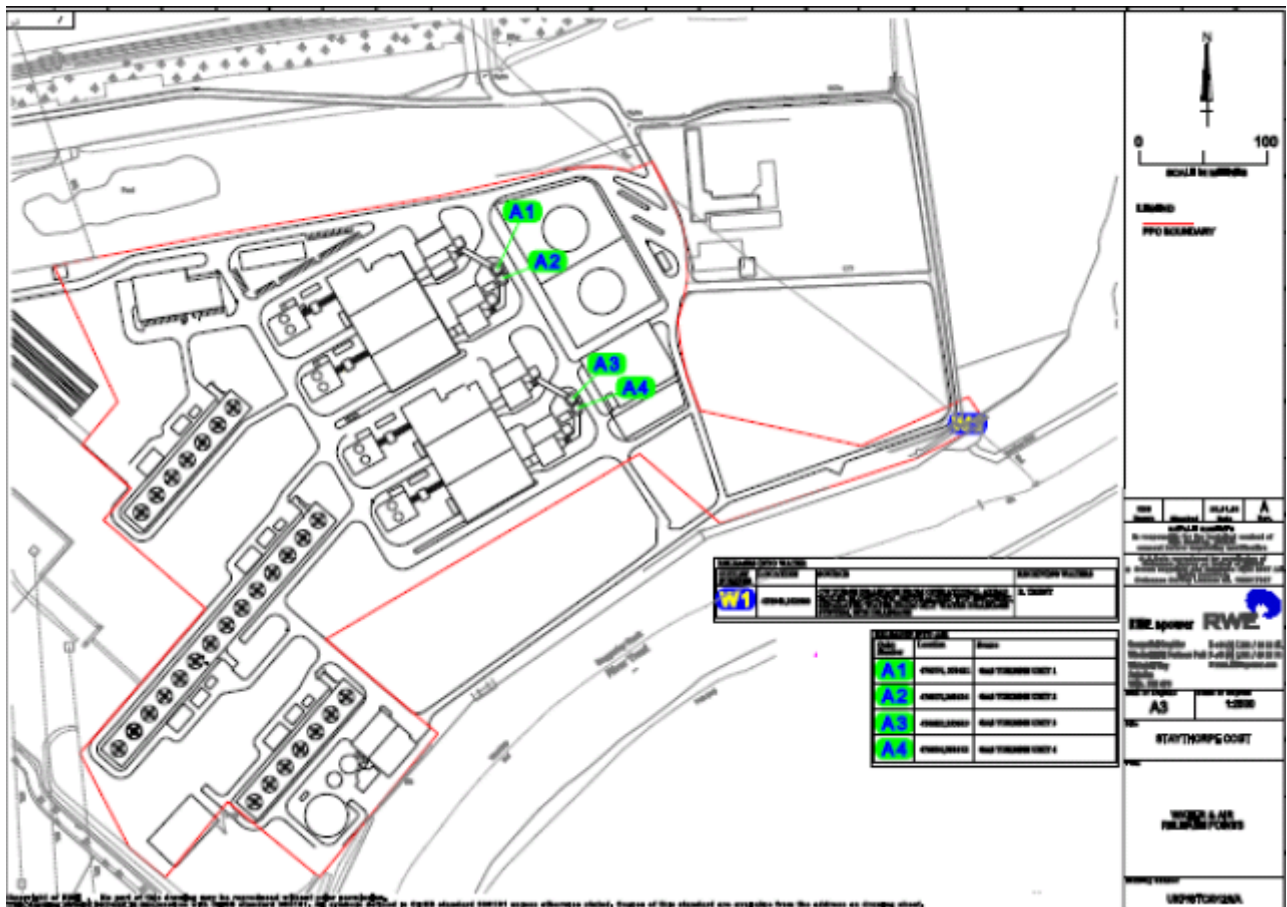
in relation to emissions from gas turbine or compression ignition engine combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or

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



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END OF PERMIT