



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Centrica Brigg Limited
Glanford Brigg Generating Station
Scawby Brook
Brigg
North Lincolnshire
DN20 9LT

Variation application number

EPR/ZP3133LM/V010

Permit number

EPR/ZP3133LM

Glanford Brigg Generating Station

Permit number EPR/ZP3133LM

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 17th 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 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 S3.1; and
- Inclusion of process monitoring for energy efficiency in table S3.3.

Permit condition 2.3.8 has been included in the permit with corresponding improvement condition IC17 requiring the operator to submit a report in relation to potential black start operation of the plant.

The start-up and shut-down thresholds for the gas engines have been updated in table S1.4 based on the submission of the response to IC12.

References to the fuel offloading area, fuel oil storage compound and fuel forwarding pump house have been removed as these are no longer in use.

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

The installation is permitted to operate four Large Combustion Plants (LCPs) referenced LCP44, LCP45, LCP46 and LCP47 which are open cycle gas turbines, each 122MWth. These OCGTs continue to be limited to 500 hrs operation per LCP.

There are also five reciprocating spark-ignition gas engines on site operating as peaking plant. The set of engines have a total thermal input of circa 105 MWth and produce up to 49.9 MWe of electricity gross. They provide additional energy security during periods of peak electricity consumption within the UK. This electricity is exported to the grid. Operation of the peaking plant is limited to 1,500 hours per engine per annum. Cooling for the gas engines is provided by closed circuit fin-fan coolers.

Emissions to air will result from the combustion of natural gas within the gas engines, which will be released into the atmosphere via 5 dedicated exhaust stacks 30m high. The main pollutants from the facility will be gaseous combustion products (oxides of nitrogen and carbon monoxide).

The power station has a maximum electrical output of 140 MWe from the Open Cycle Gas Turbines and 49MWe from the gas spark ignition engines.

Located on the south-western outskirts of Brigg at Scawby Brook in North Lincolnshire with a national grid reference SE 499850 40610. The installation covers an area of approximately seven hectares and is

relatively flat. Land surrounding the site is predominantly farmland. To the south are fields and a local railway track. The New River Ancholme is immediately to the east of the site and beyond this farmland. To the north-east is Island Carr Farm and directly beyond this is Mill View Caravan site. To the north of the site are settling ponds, beyond this are some residential properties, a sports ground and leisure centre. To the west of the site is the main site access road which passes through open farmland where it meets Scawby Road. A 40 MWe straw-fired Biomass power station is approximately 200 m north of the Glanford Brigg site.

There are no European sites within 15km of the installation. There is a Site of Special Scientific Interest within 2km of the site, Castlethorpe Tufas, which has been screened with emissions having no significant impact.

The Operator operates an environmental management system with certification to ISO14001.

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 ZP3133LM (EPR/ZP3133LM/A001)	Received 20/03/2006	
Additional information received	12/07/2007	
Permit Determined (EPR/ZP3133LM)	10/08/2007	
Variation ZP3538XH (EPR/ZP3133LM/V002)	Determined 01/08/2008	Minor variation
Variation WP3239KN (EPR/ZP3133LM/V003)	Determined 15/06/2009	Minor variation
Variation Application (EPR/ZP3133LM/V004)	Duly made 02/12/2011	Normal variation for open cycle operation and by-pass stack
Schedule 5 notice response	04/07/2012	
Additional information	02/11/2012	Information regarding emergency use
Variation issued	18/12/2012	
Variation determined EPR/ZP3133LM/V005	11/03/2013	Environment Agency Initiated Variation, to incorporate Eel Regulations improvement condition.
Variation Application (EPR/ZP3133LM/V006)	Duly made 21/01/2014	Normal variation to include four fixed by-pass stacks for open cycle operation. This incorporates three new by-pass stacks and an extension to the existing by-pass stack.
Additional information	22/04/2014	Clarification on sections of plant that will be isolated whilst operating in Open Cycle
Schedule 5 notice response	06/05/2014	Additional details of assessment at habitats sites that include nutrient nitrogen, acid deposition and emission concentrations.
Variation determined EPR/ZP3133LM/V006	23/05/2014	Varied permit issued to Centrica Brigg Limited
Variation Application EPR/ZP3133LM/V007	Duly made 13/06/2014	Variation to add two gas turbines to run on Open Cycle mode.
Schedule 5 notice response	20/07/2014	Detail of NO _x emission concentration selection.
Additional information received EPR/ZP3133LM/V007	22/08/2014	Further details on proposed NO _x abatement techniques and operating mode.
Variation determined EPR/ZP3133LM/V007 (Billing reference: FP3037VP)	31/10/2014	Varied permit issued to Centrica Brigg Limited

Status log of the permit		
Description	Date	Comments
Regulation 60 Notice sent to the Operator	31/10/2014	Issue of a Notice under Regulation 60(1) of the EPR. Environment Agency Initiated review and variation to vary and update the permit to modern conditions.
Regulation 60 Notice response	31/03/2015	Response received from the Operator.
Additional information received	24/11/2015	Response to request for further information dated 20/10/15
Variation determined EPR/ZP3133LM/V008 (Billing ref: LP3434AF)	21/12/2015	Varied and consolidated permit issued in modern condition format. Variation effective from 01/01/2016.
Variation Application EPR/ZP3133LM/V009	Duly made 01/07/2016	Application to remove unbuilt gas turbines GT3a & GT3b and install 5 gas spark engines for peaking use.
Additional information received	12/10/2016	Response to Schedule 5 Notice issued 21/9/16
Variation determined EPR/ZP3133LM/V009 (Billing ref: FP3438DV)	02/12/2016	Variation notice Issued
Regulation 61 Notice sent to the Operator	01/05/2018	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.	14/11/2018	Response received from the Operator. References to the fuel offloading area, fuel oil storage compound and fuel forwarding pump house have been removed as are no longer in use.
Variation determined EPR/ZP3133LM/V010 (Billing ref: CP3708BN)	25/03/2020	Varied and consolidated permit issued. Effective from 25/03/2020.

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/ZP3133LM

Issued to

Centrica Brigg Limited (“the operator”)

whose registered office is

Millstream

Maidenhead Road

Windsor

Berkshire

SL4 5GD

company registration number 02352390

to operate a regulated facility at

Glanford Brigg Generating Station

Scawby Brook

Brigg

North Lincolnshire

DN20 9LT

to the extent set out in the schedules.

The notice shall take effect from 25/03/2020.

Name	Date
Sifelani F Mpfu	25/03/2020

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/ZP3133LM

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/ZP3133LM/V010 authorising,

Centrica Brigg Limited (“the operator”),

whose registered office is

Millstream

Maidenhead Road

Windsor

Berkshire

SL4 5GD

company registration number 02352390

to operate a regulated facility at

Glanford Brigg Generating Station

Scawby Brook

Brigg

North Lincolnshire

DN20 9LT

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

Name	Date
Sifelani F Mpofo	25/03/2020

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: LCP44, LCP45, LCP46 and LCP47. 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: LCP44, LCP45, LCP46 and LCP47. The activities shall not operate for more than 500 hours per year.
- 2.3.6 For the following activities referenced in schedule 1, table S1.1: AR2. The activities shall not operate for more than 1500 hours per year.
- 2.3.7 For the following activities referenced in schedule 1, table S1.1: LCP44, LCP45, LCP46 and LCP47. 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 The emission limit values from emission points A1a, A2a, A3a and A4a listed in table S3.1 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 IC17.
- 2.3.9 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.

2.3.10 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 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; and
 - (b) process monitoring specified in table S3.3.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continuous), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 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 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.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

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

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the resource efficiency metrics set out in schedule 4 table S4.2;
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule; and
- (d) where conditions 2.3.5 and 2.3.6 apply the hours of operation in any year.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

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

4.3.2 Any information provided under condition 4.3.1(a)(i), 4.3.1 (b)(i) where the information relates to the breach of a condition specified in the permit, or 4.3.1(d) where the information relates to malfunction or breakdown of abatement equipment 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 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
AR1	Section 1.1 A(1) (a) : Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more	Production of electricity from a maximum of four gas turbines in open cycle mode, exhausting via four 30m by-pass stacks: GT1A(LCP44), GT1B(LCP45), GT2A(LCP46) and GT2B(LCP47)	The Operation of a gas fired power station (including gas turbines, electrical generators, oil lubrication systems, water abstraction, air compressors, and high voltage switchgear). Gas turbine open cycle operation using natural gas only. Operation of gas turbines for no more than 500 hours per year per LCP.
AR2		5 Reciprocating Spark Ignition gas engines for the production of electricity	Operation of gas engines for no more than 1500 hours per year per engine.
AR3		<1MWth emergency diesel generator	Operation of an emergency generator operating on diesel.
Directly Associated Activity			
AR3	Directly associated activity	Water treatment	From receipt of raw materials to dispatch of treated effluent, process cooling waters and dirty water system to final discharge via bulking reservoir to the New River Ancholme.
AR4	Directly associated activity	Surface water drainage	Handling and storage of site drainage via the site surface water system to the bulking reservoir until final discharge to the New River Ancholme.
AR5	Directly associated activity	Miscellaneous utility systems (including diesel starters, fire pumps, lubricating and control systems).	From receipt of raw materials to dispatch for use.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to section 2.1 and 2.2 in the Application.	20/03/2006
Receipt of additional information to the application	Responses to section 2 of application detailing Sump/Bund Inspections, Thermal Input of the Gas Heaters, Cooling Water Pipe-work Flows Underground, Annual Total of Raw Materials Used, Gas Oil Burnt on Site, List of all Vents to Air and Thermal Input of the Auxiliary Boiler.	12/07/2007
Variation application EPR/ZP3133LM/V004	<ul style="list-style-type: none"> • Response to question 3 of application form C3; • Overview of application document section 4 	02/12/2011
Response to schedule 5 notice for Variation application EPR/ZP3133LM/V004	Paragraph 2 of response to question 5	04/07/2012
Variation application EPR/ZP3133LM/V006	Response to questions in application form C2 and C3 and details of plant operation in Doc.Ref.1	27/08/2013
Additional information EPR/ZP3133LM/V006	Email response for clarification on sections of plant that will be isolated whilst operating in Open Cycle	22/04/2014
Variation application EPR/ZP3133LM/V007	Response to questions in application form C2 and C3 and referenced supporting documentation.	13/06/2014
Additional information EPR/ZP3133LM/V007	Email outlining further details on proposed NOx abatement techniques and operating modes.	22/08/2014
Response to Regulation 60(1) Notice-request for information dated 31/10/14	Compliance route and operating techniques identified in response to questions 2 (chosen compliance route), 4 (LCP configuration), 5 (Net rated thermal Input), 6 (start up and shut down), 9ii (ELV Limits), 11 (monitoring requirements).	Received 31/03/2015
Receipt of additional information to the regulation 60(1) notice requested 20/10/15	Further information provided on net rated thermal input and start up and shut down thresholds.	Received 24/11/2015
Variation Application EPR/ZP3133LM/V009	Section 3 of the application document "Glanford Brigg Generating Station. Application to vary Permit EPR/ZP3133LM for Centrica Brigg Limited" provided in response to section 3a –technical standards, Part C3 of the application form.	01/07/2016
Response to regulation 61(1) Notice – request for information dated 01/05/18 EPR/ZP3133LM/V010	Compliance and operating techniques identified in response to the BAT Conclusions for large combustion plant published on 17th August 2017.	14/11/2018

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall confirm completion of the Reverse Osmosis (RO) installation. If the installation is not completed at permit issue the Operator shall submit in writing a date for completion of all work. On completion of all work the Operator shall inform Agency.	Completed
IC2	A written procedure shall be submitted to the agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure. The procedure shall be implemented by the operator from the date of approval in writing by the Agency	Completed
IC3	A written plan shall be submitted to the Agency for approval detailing the results of an assessment of the the primary, secondary and tertiary containment arrangements against the requirements of section 2.2.9 of the Technical Guidance Note V2.03 IPPC Sector Guidance Note for Combustion Activities” 27/7/05. A written report summarising the findings, together with a timetable for any improvements identified will be submitted to the Environment Agency. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the report. The plan shall be implemented by the operator from the date of approval by the Agency.	Completed
IC4	The Operator shall undertake a review of the Best Available Techniques listed within the Combustion Sector Technical Guidance Note (TGN) IPPC S1.01 Section 2 for Oxides of Nitrogen which will enable them to achieve the Emission Limit Values given within the TGN for the release to air from gas turbines No. 1A & 1B and No. 2A & 2B (emission points A1 – A4) burning natural gas, gas oil and biofuel. The review shall include, but not be limited to, all of the relevant techniques listed within the TGN, the reduction in the level of pollutants (for each option) and the costs of achieving the reduction (for each option). The report shall include a timetable to implement any proposed changes as appropriate. The Operator shall implement the proposals as agreed in writing with the Environment Agency.	Completed
IC5	It is not considered to be BAT to operate a CCGT in OCGT mode other than exceptional circumstances The operator should provide a justification of the circumstances under which it may be BAT to operate a CCGT in open cycle mode in the balancing market or other operating regimes. Parameters to consider should include: <ul style="list-style-type: none"> ▪ Emissions to air and impact on human health ▪ Energy efficiency The Environment Agency will use this information along with information from other industry and National Grid to determine generic BAT conditions for the open cycle operation of CCGTs in competition with closed cycle plants. The operator should have regard to the requirements of the balancing market (e.g. start up time requirements) and define a maximum run time beyond which the service should be provided by high efficiency plant.	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC6	The Operator shall submit a report on the feasibility of carrying out emissions monitoring during open cycle operation. The report shall include results from any monitoring that has been carried out during open cycle operation and how the results would relate to possible emission limit values.	Completed
IC7	<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>	Completed
IC8	The Operator shall undertake a study to assess the emissions of NO _x from gas turbines GT1A, GT1B, GT2A and GT2B following the retrofitting of the NO _x abatement systems. A report detailing the findings of the study with reference to the predicted emission level of 50 mg/m ³ shall be submitted to the Environment Agency in writing for approval.	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC9	<p>The operator shall provide a report in writing to the Environment Agency for acceptance which provides the net rated thermal input for LCP403 & LCP404. The net rated thermal input is the 'as built' value unless the plant has been modified significantly resulting in an improvement of the plant efficiency or output that increases the rated thermal input (which typically requires a performance test to demonstrate that guaranteed improvements have been realised).</p> <p>Evidence to support this figure, in order of preference, shall be in the form of:-</p> <ul style="list-style-type: none"> a) Performance test results* during contractual guarantee testing or at commissioning (quoting the specified standards or test codes), b) Performance test results after a significant modification (quoting the specified standards or test codes), c) Manufacturer's contractual guarantee value, d) Published reference data, e.g., Gas Turbine World Performance Specifications (published annually); e) Design data, e.g., nameplate rating of a boiler or design documentation for a burner system; f) Operational efficiency data as verified and used for heat accountancy purposes, g) Data provided as part of Due Diligence during acquisition, <p>*Performance test results shall be used if these are available.</p>	No longer required
IC10	<p>The Operator shall submit a report in writing to the Environment Agency for acceptance. The report shall define and provide a written justification of the "minimum start up load" and "minimum shut-down load", for each unit within the LCP as required by the Implementing Decision 2012/249/EU in terms of:</p> <ul style="list-style-type: none"> i. The output load (i.e. electricity, heat or power generated) (MW); and ii. This output load as a percentage of the rated thermal output of the combustion plant (%). <p>And / Or</p> <ul style="list-style-type: none"> iii. At least three criteria (operational parameters and / or discrete processes as detailed in the Annex) or equivalent operational parameters that suit the technical characteristics of the plant, which can be met at the end of start-up or start of shut-down as detailed in Article (9) 2012/249/EU. 	No longer required
IC11	<p>'For LCPD LCP 108, LCP 109, LCP110 and LCP112 (now LCP 44, LCP45, LCP46 and LCP47 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>	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC12	The Operator shall submit a report in writing to the Environment Agency for acceptance. The report shall define and provide a justification of start-up and shut down definitions for the gas engines.	Submitted
IC13	The operator will provide written notification to the Environment Agency of the date when commissioning of the gas engine units is complete.	Complete
IC14	The operator shall provide a commissioning report to the Environment Agency, detailing <ul style="list-style-type: none"> i) The results of the commissioning programme: and ii) Any significant changes to the information provided in the pre-operation condition report. 	Submitted
IC15	The Operator shall establish the methane emissions from the engines and compare these to the manufacturer's specification and appropriate benchmark level as agreed in writing with the Environment Agency. Based on the conclusions of this assessment the Operator shall propose an appropriate proposal to assess potential methane slip for the lifespan of the engines and outline an action plan that will be followed in the instance that emissions above the manufacturer's specification or appropriate benchmark level are identified. The result of the assessment and the proposed action plan shall be submitted in writing to the Environment Agency for approval.	Submitted
IC16	The Operator shall establish emissions of carbon monoxide and formaldehyde from the engines. Using this information, an assessment of the impacts of carbon monoxide emissions and possible impacts of formaldehyde should be undertaken in line with our H1 guidance or equivalent methodology. A review of the emission levels in comparison to the relevant benchmark levels shall also be carried out. A written report detailing the findings of the assessment of the emissions, predicted impacts and the review in comparison to the relevant benchmarks should be submitted to the Environment Agency for approval.	Submitted
IC17	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. The plant can be operated as set out in condition 2.3.8 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.	12 months from issue of variation EPR/ZP3133LM/ V010

Table S1.4 Start-up and Shut-down thresholds		
Emission Point and Unit Reference	“Minimum start up load” Load in MW and as percent of rated power output (%)	“Minimum shut-down load” Load in MW and as percent of rated power output (%)
A1a (LCP44)	23 MWe; 55%	15 MWe; 36%
A2a (LCP45)	23 MWe; 55%	15 MWe; 36%
A4a (LCP46)	23 MWe; 55%	15 MWe; 36%
A3a (LCP47)	23 MWe; 55%	15 MWe; 36%
A34, A35, A36, A37, A38	3.43 MWe; 35%	3.43 MWe; 35%

Schedule 2 – Raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	-
Diesel Oil	<0.1% sulphur light fuel oil (diesel)

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
A1a Bypass stack (SE 9903 0599)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas Turbine GT1A (LCP44) fired on natural gas during open cycle operation	304 mg/m ³ Note 1	-	Concentration by calculation every 2 years	Agreed in writing with the Environment Agency
A2a Bypass stack (SE 9966 0599)						
A3a Bypass stack (SE 9915 0601)	Sulphur Dioxide	Gas Turbine GT1B (LCP45) fired on natural gas during open cycle operation	-	-	Concentration by calculation every 2 years	Agreed in writing with the Environment Agency
A4a Bypass stack (SE 9918 0601)	Carbon Monoxide	Gas Turbine GT2A (LCP46) fired on natural gas during open cycle operation	-	-	Concentration by calculation every 2 years	Agreed in writing with the Environment Agency
		Gas Turbine GT2B (LCP47) fired on natural gas during open cycle operation				
A8-A11	-	Diesel starter exhausts (turbine hall)	-	-	-	-
A12 (SE 9931 0603)	-	Gas Vent to station	-	-	-	-
A22	-	Diesel pump fire exhaust	-	-	-	-
A30-A31	-	Oil mist eliminator vents	-	-	-	-

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
A34, A35, A36, A37, A38 [Points A34-A38 on site plan in schedule 7]	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Spark Ignition engine exhausts number 34-38 fired on natural gas	95 mg/m ³	-	Annually	BS EN 14792
	Carbon monoxide		No limit set	-	Annually	BS EN 15058
	Oxygen		No limit set	-	Annually	BS EN 14789
	Water vapour		No limit set	-	Annually	BS EN 14790
	As required by the Method Implementation Document for BS EN 15259		No limit set	-	Pre-operation and where there is a significant operational change	BS EN 15259
A39	Combustion gases	<1MWth emergency diesel generator exhaust	No limit set	-	-	-

Note 1:
This is an industry benchmark emission level from reported industry performance documented in JEP report JEP17EMG02 / UTG/18/ERG/CT/773/R 'Maintaining the Emissions Performance of Open Cycle Gas Turbines that operate for less than 500 hours per year', October 2018.

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1 on site plan in Schedule 7 emission to new River Ancholme (SE9934 0661)	Bulking reservoir discharge including: cooling water purge, treated sewage effluent. Surface water run off from National Grid Gas compound, southern side of the site, Turbine hall, GIS building and Fire pump house drainage.	Total daily volume	6800m ³	24 hour period beginning 00.01	Continuous	Permanent sampling access not required
		Maximum flow	460m ³ /hr	Average over 24 hour period beginning 00.01	Continuous	Permanent sampling access not required
		Total oxidant (as chlorine)	0.2mg/l	Average over 24 hour period beginning 00.01	Continuous	As agreed in writing with the Environment Agency

Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
	Oil interceptor from car park.	Temperature	25°C	-	Daily	As agreed in writing with the Environment Agency
		pH	6-9	Hourly average	Continuous	BS EN ISO 10523
		Oil or grease	No visible emission	24 hour flow proportional sample	Fortnightly	Permanent sampling access not required

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
LCP44, LCP45, LCP46, LCP47	Net electrical efficiency	After each modification that could significantly affect these parameters	By calculation	

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	A1a, A2a, A3a, A4a	Every 2 years	1 January
	A34, A35, A36, A37, A38	Every year	1 January
Carbon Monoxide	A1a, A2a, A3a, A4a	Every 2 years	1 January
	A34, A35, A36, A37, A38	Every year	1 January
Sulphur dioxide	A1a, A2a, A3a, A4a	Every 2 years	1 January
Emissions to Water Parameters as required by condition 3.5.1	W1	Every year	1 January

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

Table S4.3 Large Combustion Plant Performance parameters for reporting to DEFRA and other Performance parameters		
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
Energy usage for gas spark engines	Annually	MW
Gas spark engine Operating Hours	Annually	Operating Hours for each gas engine, total plant operating hours & number of runs

Table S4.4 Reporting forms		
Media/ parameter	Reporting format	Agency recipient
Air & Energy	Form IED AR1 – SO ₂ , NO _x and dust mass emission and energy. Form as agreed in writing by the Environment Agency.	National and Area Office
LCP	Form IED HR1 – operating hours. Form as agreed in writing by the Environment Agency.	National and Area Office
Air	Form IED PM1 - discontinuous monitoring and load. Form as agreed in writing by the Environment Agency.	Area Office
Resource Efficiency	Form REM1 – resource efficiency annual report Form as agreed in writing by the Environment Agency.	National and Area Office
Water	Form water 1 or other form as agreed in writing by the Environment Agency	Area Office
Gas Engine operating hours	Form operating hours – engine operating hours or other form as agreed in writing by the Environment Agency	Area Office
Gas engine air emissions	Form Air 1 or other form as agreed in writing by the Environment Agency	Area Office

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	

(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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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.

“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.

“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.

“DLN” means dry, low NO_x burners.

“emergency plant” means a plant which operates for the sole purpose of providing power at a site during an onsite emergency and/or during a black start and which does not provide balancing services or demand side response services.

“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 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.

“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.

“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.

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.

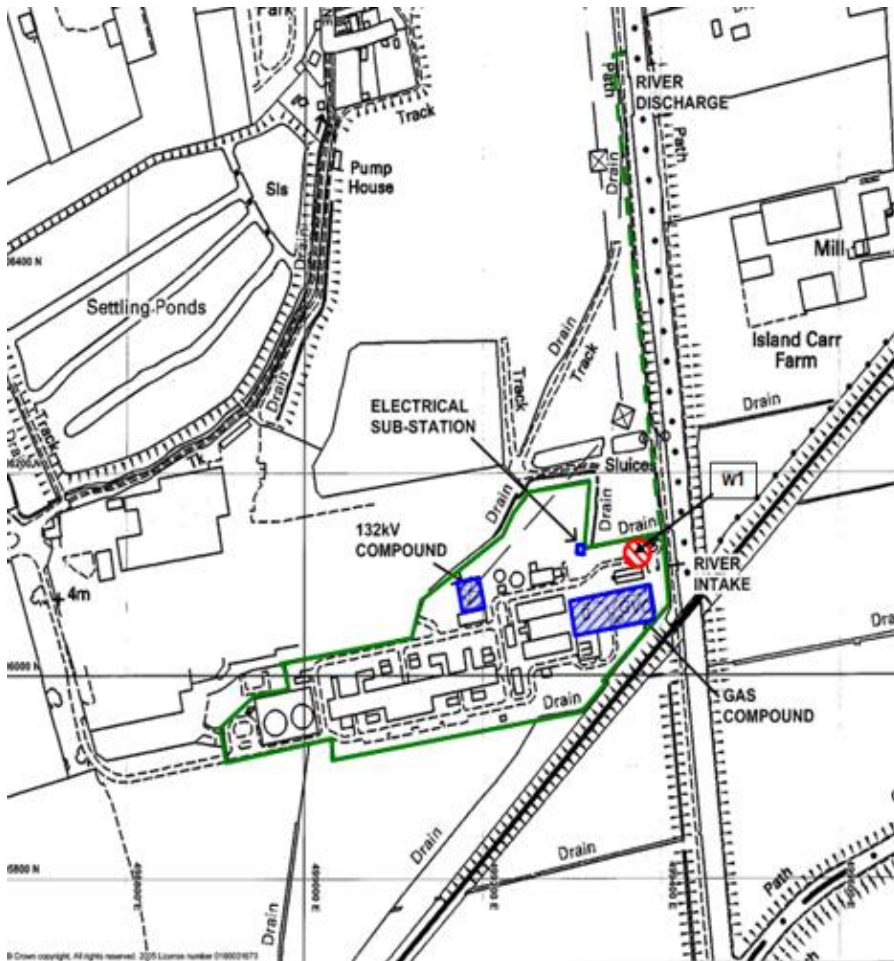
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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

Installation boundary plan



Emission points plan



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