



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Scottish Power Generation Limited
Blackburn Paper Mill CHP Facility
Livesey Branch Road
Feniscowles
Blackburn
BB2 5HX

Variation application number

EPR/BK4723IL/V002

Permit number

EPR/BK4723IL

Blackburn Paper Mill CHP Facility

Permit number EPR/BK4723IL

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 also requested other changes to the permit. These relate to changes to reflect closure of the adjacent Blackburn mill and removal of conditions relating to noise monitoring, discharges to surface water and sewer.

The Operator has chosen to operate this LCP under the ELV compliance route as a CCGT. This is a change from the previous operating regime which was as a CHP, although the plant retains the capability to operate as a CHP should a customer for steam be identified.

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

- LCP 262 is changed to LCP 304

The main purpose of the activity at the installation was to operate a Combined Heat & Power (CHP) Plant to supply energy in the form of electrical power and steam to the adjacent Blackburn Paper Mill. This mill has subsequently closed and been demolished. The plant now operates as a CCGT supplying electrical power to the National Grid. Should a local consumer for steam be identified in the future the plant remains capable of operating as a CHP. The plant is located at grid reference NGR SD 6461 2475

The facility consists of one Gas Turbine fired on natural gas, a Heat Recovery Steam Generator (HRSG), Steam Turbine, Condenser, Hybrid Cooling Tower, Water Treatment Plant, and electrical/mechanical infrastructure. The net rated thermal input of the CCGT has been demonstrated as 119MWth. There are also two package boilers on site which are both decommissioned. They were used to supply the process steam load during planned outages or breakdown of the main plant. The plant comprises a single gas turbine where compressed natural gas and air are combusted. The hot gases produced pass through the turbine section, which drives a generator to produce electricity. The hot gases subsequently enter the HRSG, where steam is raised to drive a steam turbine, generating additional electricity. If necessary, any process steam requirements for local consumers could then be taken from an extraction point on the steam turbine. Exhaust gases, now cooled, pass from the HRSG to the atmosphere from a 45 metre high stack. The total electrical output is 60MWe with potential to generate 63t/hr of steam.

Cooling water is used in the condenser to condense exhaust steam from the steam turbine. The condenser cooling water is then passed through three cooling tower cells for cooling and subsequently returned to the

condenser. Blowdown from the cooling tower is necessary to reduce a build-up of solids as water is evaporated via the cooling process. This blowdown is sent to the effluent system.

Water within the HRSG is systematically purged to reduce total dissolved solids. This 'boiler blowdown water' including blowdown from the sampling system, is discharged to the effluent system. Blowdown water from the HRSG is replaced by demineralised water from the on-site demineralisation plant.

The emissions to air are mainly from the 45 metre high stack that takes the exhaust gases from the gas turbine. There is continuous emission monitoring in the stack for oxides of nitrogen, carbon monoxide, oxygen and temperature. The very low sulphur content of the natural gas fuel used results in an insignificant emission of sulphur dioxide.

Foul water from the site is discharged to a foul sewerage system.

Surface water run-off from the site is discharged to the River Roddlesworth via a drainage system and outfall structure. The drainage passes through a class 1 oil interceptor to remove oil and sediment prior to discharge to the River Roddlesworth.

Process effluent from the demineralisation backwash & sand filters is pre-treated for pH correction prior to discharge to the effluent system.

A number of measures are used to minimise noise emissions from the CHP plant. These include acoustic enclosures for the steam turbine, gas turbine, feed pumps, condenser, silencers on exhaust structures and air intakes. Vibration is minimised by the mechanical decoupling of the gas turbine and generator assembly from its foundation to reduce structure borne noise.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application BK4723	Dated 26/01/01 Received 31/01/01	
Application Duly Made	28/02/01	
Schedule 4 Notice issued (28 day period for response)	Request dated 10/05/01 Response required: 07/06/01	Request to extend 28 day period.
Request to extend period of Schedule 4 Notice	Request received: 06/06/01	Request accepted: 06/06/01 Period extended until: 16/07/01
Request to extend period of Schedule 4 Notice	Request received: 16/07/01	Request accepted: 16/07/01 Period extended until: 30/07/01
Request to extend period of Schedule 4 Notice	Request received: 30/07/01	Request accepted: 02/08/01 Period extended until: 20/08/01
Further Schedule 4 Notice issued. (28 day period for response)	Request dated 05/09/01 Response required: 03/10/01	Further information concerning atmospheric releases.
Schedule 4 Notice of the 05/09/01 received. (concerning atmospheric releases)	Request dated: 05/09/01 Received: 03/10/01	Information accepted.

Status log of the permit		
Description	Date	Comments
Further schedule 4 Notice issued	Request dated: 17/09/01 Response required: 15/10/01	Further information concerning noise and vibration.
Request to extend period of Schedule 4 Notice.	Request received: 15/10/01	Request accepted 15/10/01. Period extended until 15/11/01
Schedule 4 Notice of 17/09/01 received. (concerning noise and vibration)	Request dated: 17/09/01 Received: 08/11/01	Information accepted.
Permit BK4723 determined	27/11/01	
Application to transfer permit	Received 20/07/05	Application dated 30/06/05
Permit transfer duly made	28/09/05	
Permit BK4723 transferred	20/01/06	Transferred to Scottish Power Generation Limited 20/01/06. The permit retained the original permit number.
Regulation 60 Notice sent to the Operator	09/12/14	Issue of a Notice under Regulation 60(1) of the EPR. Environment Agency Initiated review and variation to vary the permit under IED to implement the special provisions for LCP under Chapter III, introducing new Emission Limit Values (ELVs) applicable to LCP, referred to in Article 30(2) and set out in Annex V. The permit is also updated to modern conditions
Regulation 60 Notice response	30/03/15	Response received from the Operator including request for additional changes to the permit
Additional information received	12/06/15	Response to request for further information (RFI) dated 02/06/15.
Additional information	Received 25/11/15	Response to e-mail request for further information dated 26/10/15 relating to MSUL
Additional information	Received 06/11/15	Response to e-mail request for further information dated 05/11/15 relating to sewer discharge points
Variation determined EPR/BK4723IL/V002 (PAS Billing ref: NP3538AQ)	16/12/15	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
Blackburn Mill Ltd	BK2402IE	30/04/02

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/BK4723IL

Issued to

Scottish Power Generation Limited (“the operator”)

whose registered office is

**1 Atlantic Quay
Robertson Street
Glasgow
G2 8SP**

company registration number SC189124

to operate a regulated facility at

**Blackburn Paper Mill CHP Facility
Livesey Branch Road
Feniscowles
Blackburn
BB2 5HX**

to the extent set out in the schedules.

The notice shall take effect from 01/01/2016

Name	Date
Philip Lamb	16/12/2015

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/BK4723IL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BK4723IL/V002 authorising,

Scottish Power Generation Limited (“the operator”),

whose registered office is

**1 Atlantic Quay
Robertson Street
Glasgow
G2 8SP**

company registration number SC189124

to operate an installation at

**Blackburn Paper Mill CHP Facility
Livesey Branch Road
Feniscowles
Blackburn
BB2 5HX**

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

Name	Date
Philip Lamb	16/12/2015

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.

1.5 Multiple operator installations

- 1.5.1 Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

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 For the following activities referenced in schedule 1, table S1.1: LCP304. Without prejudice to condition 2.3.1, the activities shall be operated in accordance with the “Electricity Supply Industry IED Compliance Protocol for Utility Boilers and Gas Turbines” revision 1 dated February 2015 or any later version unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1: LCP304. The end of the start up period and the start of the shutdown period shall conform to the specifications set out in Schedule 1, tables S1.2 and S1.4
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.

- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;

- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

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

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

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

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

4 Information

4.1 Records

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

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the resource efficiency metrics set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 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) or 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.	LCP304: Operation of a combined cycle gas turbine power plant (CCGT) burning gas to produce electricity.	From receipt of natural gas to discharge of exhaust gases, and the generation of electricity for export.
Directly Associated Activity			
A2	Directly associated activity	Operation of emergency diesel fire pump <1MWth	Including storage of fuel oil..
A3	Directly associated activity	Surface water drainage	Handling and storage of site drainage until discharge to the site surface water system.
A4	Directly associated activity	Water treatment	From receipt of raw materials to dispatch to chemical effluent and dirty water system.
A5	Directly associated activity	Discharge of effluent	Handling and storage of site effluent and discharge to the site effluent treatment pump station

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to question B2.1 of the application form given in Section 6.0, pages 37 to 40 inclusive of the main application document no.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to question 2.2 of the application form given in Section 7.0, pages 43 to 51 inclusive of the main application document. no.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to questions 2.3.given in Section 8.0, pages 53 to 68 inclusive of the main application document. no.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to questions 2.4 given in Section 8.7.6, pages 66 and 67 of the main application document number 0450/000/R/00/7560 Issue B1	31/01/01

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to question 2.5 given in Section 9.0, pages 69 to 72 inclusive of the main application document. No.450/000/R/00/7560 Issue B1	31/01/01
Application	The response to question B2.6 given in Section 10, page 75 of the main application document No.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to question B2.7 given in Section 11, pages 79 to 81 inclusive of the main application document	31/01/01
Application	The response to question B2.8 given in Section 12.0, pages 85 to 87 inclusive of the main application document. No. 0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to question B2.9 given in Section 13.0, pages 89 to 104 inclusive of the main application document. No.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to question B2.10 given in Section 14.0 pages 107 to 109 inclusive of the main application document. No.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to question B2.11 given in Section 15.0 pages 113 to 116 of the main application document. No.0450/000/R/00/7560 Issue B1	31/01/01
Application	The response to questions B2.12 given in Section 16.0 page 119 of the main application document. No.0450/000/R/00/7560 Issue B1	31/01/01
Response to Schedule 4 Part 1. Notice Response.	The response to question 2 (Management Techniques B2.1) in the Schedule 4 Notice given in Section 4 of the Schedule 4 response (Report No. 2) p.10 Report No. 0450/0003/R/01/11035 Issue B1	20/08/01
Response to Schedule 4 Part 1. Notice Response	The response to question 3 (Materials input. B2.2) in the Schedule 4 Notice given in Section 3.2 of the Schedule 4 response (Report No. 1) p.5 Issue B1 Report No.0450/0003/R/01/11026	20/08/01
Response to Schedule 4 Part 1. Notice Response	The response to the question 4 (Activities and Abatement B2.3) in the Schedule 4 Notice given in Section 4 of the Schedule 4 response (report No.1) p.6 to 11. Report No. 0450/0003/R/01/11026 Issue B1	30/07/01
Response to Schedule 4 Part 1. Notice Response	The response to the question 5 (Emission to Groundwater B2.4) in the Schedule 4 Notice given in Section 5 of the Schedule 4 response (report No. 1) p. 12 Report No. 0450/0003/R/01/11026 Issue B1	30/07/01
Response to Schedule 4 Part 1. Notice Response	The response to the question 6 (Waste handling B2.5) in the Schedule 4 Notice given in Section 6 (Report No.1) of the Schedule 4 response. p.13 No:0450/0003/R/01/11026 Issue B1	30/07/01
Response to Schedule 4 Part 1. Notice Response	The response to question 7 (Accidents and consequences B2.8) in the Schedule 4 Notice given in Section 5 (Report No. 2) of the Schedule 4 response p.17 Report No. 0450/0003/R/01/11035 Issue B1	20/08/01
Response to Schedule 4 Part 1. Notice Response	The response to question 8 given in Section 6 (Report No. 2) of the Schedule 4 response pages 19-24 inclusive and appendix12. Report no. 0450/0003/R/01/11035 Issue B1	20/08/01

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 4 Part 1. Notice Response	The response to question 9 (Monitoring B2.10) in the Schedule 4 Notice given in Section 9 (Report No.1) of the Schedule 4 response p.16 Report No. 0450/0003/R/01/11026 Issue B1	30/07/01
Response to Schedule 4 Part 1. Notice Response	The response to question 10 (Decommissioning B2.11) in the Schedule 4 Notice given in Section 10 (Report No.1) of the Schedule 4 response p.17 Report No. 0450/0003/R/01/11026 Issue B1	30/07/01
Response to further Schedule 4 Part 1 Notice Response	Response to the question in the further Schedule 4 Notice (Atmospheric emissions, start up and shut down profiles and plume visibility) given in the Schedule 4 response referenced: Ref. No. 0450/003/L/01/11403 (Letter dated 2/10/01)	03/10/01
Response to additional Schedule 4 Part 1 Notice	The response to questions issued in the Schedule 4 Notice dated 17/09/01 given in the Schedule 4 Response received 8/11/01 ref 0450/0003/L/01/11479.	08/11/01
Response to regulation 60(1) Notice – request for information dated 09/12/14	Compliance route and operating techniques identified in response to questions 2 (compliance route), 4 (configuration), 6 (MSUL/MSDL), 9i (ELV`s), and 11 (Monitoring). Request to make minor amendments to the permit to reflect current operating situation, parts 1-7.	30/03/15
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 02/06/15	Compliance route(s) and operating techniques identified in response to questions 1 (operational commencement), 4 (clarification of configuration), 5 (thermal input), 6 (MSUL/MSDL), and 9i (ELV`s).	12/06/15
Response to e-mail dated 27/10/15	Further information relating to MSUL/MSDL	25/11/15
Response to e-mail dated 05/11/15	Further information relating to sewer discharge S1 and S2	06/11/15

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
9.1	The Operator shall submit a report providing details of emissions from the gas turbines during the 'reliability run', to the Environment Agency. The report shall provide details and a justification where emissions levels have exceeded the base load limits provided in Table 6.1.2 of this permit.	Complete
9.2	The Operator shall submit to the Environment Agency a detailed report to demonstrate that the activities covered by this permit are carried on in such a way that energy is used efficiently. The report shall provide details, as appropriate, of all indicative energy efficiency requirements in accordance with Environment Agency guidance note IPPC Technical Guidance for Energy Efficiency including details of the energy efficiency plan.	Complete
9.3	Fugitive emissions shall be reviewed on an annual basis and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them.	One month after each annual review.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
9.4	The operator shall submit to the Agency detailed results of analysis of the demineralisation plant backwash effluent. Parameters to be measured are to be agreed in writing with the Agency.	Complete
9.5	The operator shall submit to the Agency a schedule to record waste arisings, identifying the source, quantity and destination of waste arisings, where applicable, from the facility.	Complete
9.6	The operator shall submit to the Agency a plan of “as-built” details of the facility’s underground pipes and vessels. The plan should also be accompanied by a written procedure for keeping the plan up to date as material changes take place on the site. This procedure must ensure that the Agency is always in possession of a plan of the current situation on site.	Complete
9.7	The operator shall provide a detailed action plan for the completion of the remaining requirements of BAT for Management Techniques as detailed in Technical Guidance. The requirements are to be agreed with the Agency and the procedures shall be in place, one year post commissioning.	Complete
9.8	The operator shall finalise draft management procedures appended 8,9,10 and 11 to the Schedule 4 Notice response to the Agency. Procedures shall be finalised within six months post commissioning, or at a time agreed in writing with the Agency.	Complete
9.9	The operator shall establish charts of actual emissions for oxides of nitrogen (NO _x as NO ₂) and carbon monoxide over the full range of gas turbine loads. The relationship shall be established between emissions for both increasing and decreasing loads. The operator shall submit a report of such findings (including the charts) in writing to the Environment Agency.	Complete
9.10	The operator shall establish a procedure to identify potential environmental hazards, to assess their risk and to identify measures to reduce the risk of their occurrence.	Complete
9.11	The operator shall make an assessment of the tonal component of noise from the CHP facility during the reliability testing. This assessment shall be carried out in accordance with the requirements of BS7445: 1991 ‘Description and measurement of environmental noise’ Part 1-3 and shall be completed no longer than 30 days after commencement of reliability testing. A report of the results shall be submitted to the Environment Agency, in writing, within 28 days of completion of the assessment. In the event that the assessment identifies a prominent tonal component in the noise generated by the CHP facility, this report shall include proposals for attenuation and the facility shall not be operated until such time as this attenuation work has been completed.	Complete
9.12	The operator shall carry out noise monitoring at least twice weekly (once per day and once per night) during both day-time and night-time in order to validate the acoustic performance of the CHP during the reliability testing. A report of the results shall be submitted to the Environment Agency in writing. This report shall include an assessment of the plant’s ability to meet the guaranteed performance levels detailed in the Application.	Complete
9.13	The operator shall submit a programme for the ongoing monitoring of noise from the CHP facility. The programme shall specify the locations from which noise will be monitored and the maximum levels to be met at each location. All measurements shall be made in accordance with BS4142: 1997 ‘ Method for rating industrial noise affecting mixed residential and industrial areas’.	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
9.14	The Operator shall, within 12 months of the issue of this Permit, submit a report on potential environmental improvements to the Permitted Installation. For each of the subject areas identified in Section 2 of the appropriate technical guidance, the report shall assess the costs and benefits of alternative techniques that may provide environmental improvement. This shall include, but not be limited to, those techniques listed in guidance. The methodologies used should be based on those given in Agency guidance, as available and should justify, against the BAT criteria, where potential improvements are not planned to be implemented. As part of their management system, the Operator shall submit an updated report every 36 months.	Complete and superseded by condition 4.2.4.
9.15	The operator shall provide a proposal in writing to the Environment Agency to undertake a current noise assessment for the site having regard to Environment Agency Guidance note H3 and BS4142. Upon agreement of the noise assessment proposal with the Environment Agency the operator shall undertake the monitoring and conduct an assessment in accordance with BS4142. Where it is identified that there is a reasonable likelihood of complaints (as defined by BS4142) or the existing abatement is not considered to be the Best Available Technique (BAT). The operator shall provide proposals in writing for improvements which shall include agreed timescales for completion.	31 December 2016
9.16	For LCPD LCP 262 (now LCP 304 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.	28 January 2016

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/or when two of the criteria listed below for the LCP or unit have been met.	“Minimum Shut-Down Load” Load in MW and as percent of rated power output (%) and/or when two of the criteria listed below for the LCP or unit have been met.
A1 LCP304	<ul style="list-style-type: none"> • 23MW; 53.5% of the gas turbine load. • GT speed greater than idle. • Inlet guide veins to gas turbine compressor are equal to or > 29% open. 	<ul style="list-style-type: none"> • 20MW; 46.5% of the gas turbine load. • GT speed greater than idle. • Inlet guide veins to gas turbine compressor are equal to or <25% open.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	-
Gas oil (for diesel fire pump)	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 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	LCP No. 304 Gas turbine fired on natural gas	50 mg/m ³ 70% to base load ¹	Monthly mean of validated hourly averages	Continuous	BS EN 14181
			55 mg/m ³ 70% to base load ¹ 55 mg/m ³ MSUL/MSDL to base load ²	Daily mean of validated hourly averages	Continuous	BS EN 14181
			90 mg/m ³ 70% to base load ¹	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Carbon Monoxide	LCP No. 304 Gas turbine fired on natural gas	50 mg/m ³ 70% to base load ¹	Monthly mean of validated hourly averages	Continuous	BS EN 14181
			50 mg/m ³ 70% to base load ¹ 50 mg/m ³ MSUL/MSDL to base load ²	Daily mean of validated hourly averages	Continuous	BS EN 14181
			75 mg/m ³ 70% to base load ¹	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 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Sulphur dioxide	LCP No. 304 Gas turbine fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency
A1 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Oxygen	LCP No. 304 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
A1 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Water Vapour	LCP No. 304 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
A1 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Stack gas temperature	LCP No. 304 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	Traceable to national standards
A1 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	Stack gas pressure	LCP No. 304 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	Traceable to national standards
A1 [Denoted CHP Plant Stack on drawing 0450/000/013 Rev C]	As required by the Method Implementation Document for BS EN 15259	LCP No. 304 Gas turbine fired on natural gas	-	-	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 S1.5.

Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1 emission to River Roddlesworth [denoted TP011 on drawing 0450/000/013 Rev C]	No parameter set	Clean uncontaminated surface water and storm water drainage from site via oil interceptor.	–	–	–	–

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in Schedule 7	pH	Cooling tower boiler blowdown	7 to 9.5	Instantaneous	Monthly	BS6068-2.50
S2 on site plan in Schedule 7	pH	Boiler blow down and water treatment plant effluent	6 to 10	Instantaneous	Monthly	BS6068-2.50

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Oxides of nitrogen	A1	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
Carbon Monoxide	A1	Every 3 months for continuous monitoring	1 January, 1 April, 1 July, 1 October
Sulphur dioxide	A1	Every 6 months for periodic monitoring	1 January, 1 July
Emissions to Sewer Parameters as required by condition 3.5.1	S1, S2	Every 6 months	1 January, 1 July

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
Air & Energy	Form IED AR1 – SO ₂ , NO _x and dust mass emission and energy	01/01/16	National	31/12/15
LCP	Form IED HR1 – operating hours	01/01/16	National	31/12/15
Air	Form IED CON 2 – continuous monitoring	01/01/16	Area Office	31/12/15
CEMs	Form IED CEM – Invalidation Log	01/01/16	Area Office	31/12/15
Air	Form IED PM1 - discontinuous monitoring and load.	01/01/16	Area Office	31/12/15
Resource Efficiency	Form REM1 – resource efficiency annual report	01/01/16	National	31/12/15
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	01/01/16	Area Office	31/12/15

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(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.

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

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

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

“biomass” means:

- (a) vegetable matter from agriculture and forestry;
- (b) vegetable waste from the food processing industry, if the heat generated is recovered;
- (c) fibrous vegetable waste from virgin pulp production and from production of paper from pulp, if it is co-incinerated at the place of production and the heat generated is recovered;
- (d) cork waste; and
- (e) wood waste with the exception of wood waste which may contain halogenated organic compounds or heavy metals as a result of treatment with wood preservatives or coating, and which includes in particular such wood waste originating from construction and demolition waste.

“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.

“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.

“dynamic emission limit value” (DELV) means an emission limit that varies in accordance with Article 40 of the Industrial Emissions Directive.

“emissions to land” includes emissions to groundwater.

“Energy efficiency” the ISO base load net plant efficiency means the performance value established by acceptance testing following commissioning or performance testing following improvements made to the plant that could affect the efficiency.

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

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

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

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

“low polluting fuels” means biomass or coal with an average as-received sulphur content of less than 0.4% by mass as described 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.

Pests” means Birds, Vermin and Insects.

“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

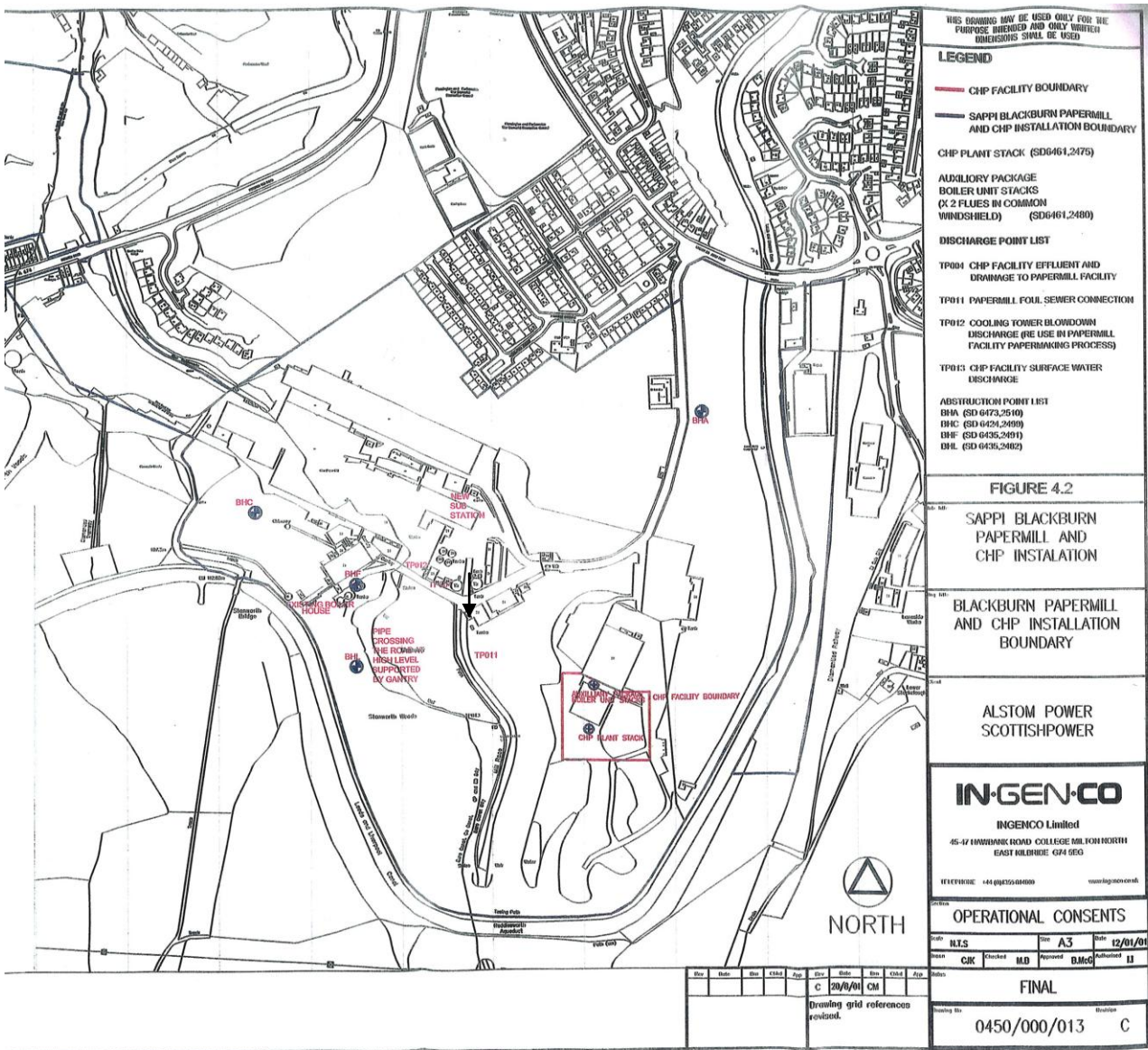
in relation to emissions from gas turbine or compression ignition engine combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or

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

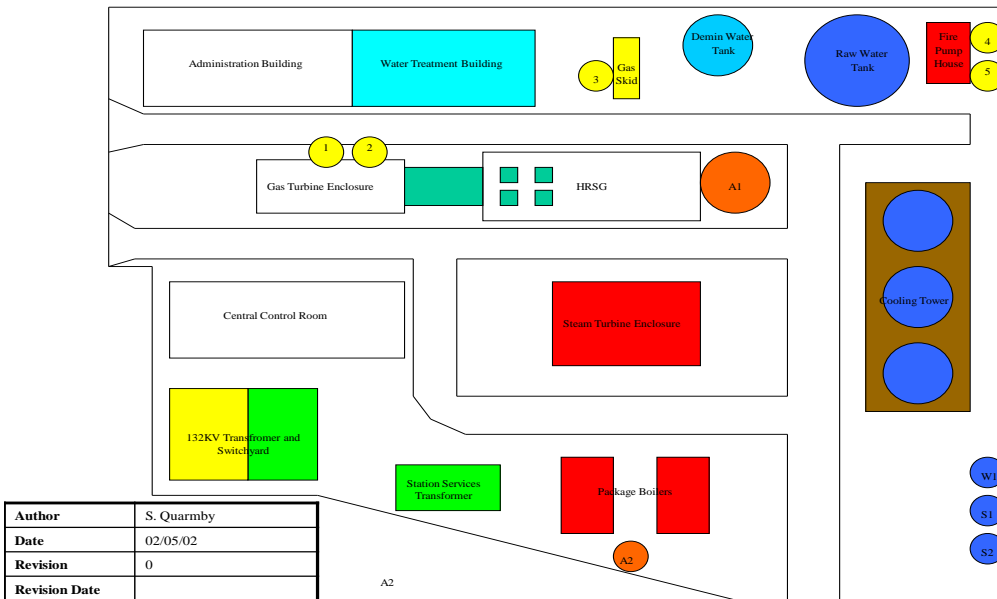
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



BL-EN-DI-2002 General Emission Release Points



END OF PERMIT