



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Sembcorp Utilities (UK) Limited

Wilton No.2 Gas Turbine
Sembcorp UK Headquarters
PO Box 1985
Wilton International
Middlesbrough
Cleveland
TS90 8WS

Variation application number

EPR/XP3839XV/V005

Permit number

EPR/XP3839XV

Wilton No.2 Gas Turbine

Permit number EPR/XP3839XV

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations (EPR) 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.

Purpose of this variation:

This variation is required to assess the permit for compliance with the revised Best Available Techniques (BAT) Conclusions for the Large Combustion Plant (LCP) sector published on 17 August 2017 including the incorporation of relevant BAT Associated Emission Levels (AELs) into the permit.

Review permit conditions

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 BAT Conclusions. We have reviewed the permit for this installation against the revised BAT Conclusions for the LCP sector published on 17 August 2017. Only activities covered by this BAT Reference Document have been reviewed and assessed.

Key changes made as a result of the permit review:

This variation makes the key changes set out below following the permit 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:

- Inclusion of compliance and operating techniques in table S1.2;
- Inclusion of improvement conditions to deliver compliance with BAT Conclusions 2, 9 and 40;
- Inclusion of the dry low NO_x effective definition in table S1.6;
- Revised emission limits and monitoring requirements for emissions to air applicable from the BAT Conclusions implementation date, 17 August 2021, in table S3.1a; and
- Inclusion of process monitoring for energy efficiency in table S3.3.

Additional key changes in accordance with IED Chapter II requirements:

- Permit condition 2.3.7 has been included in the permit with corresponding improvement condition IC12 requiring the operator to submit a report in relation to potential black start operation of the plant;
- Permit condition 3.5.4 is amended to reference table S3.3 process monitoring requirements at emission point S7;
- Table S1.1 is amended to include waste oil storage as a directly associated activity;
- Table S1.3 is amended to include an improvement condition requiring the operator to submit an updated noise management plan. There is provision to incorporate this into table S1.2 on approval;
- Table S3.3 is deleted to remove annual limits for cadmium and mercury present in raw materials at emission point S7. Corresponding permit condition 3.5.1 is amended to remove reference to annual limits in table S3.3. Table S3.4 is renumbered to S3.3; and
- Table S4.1 is amended to remove reporting requirements for cadmium and mercury at emission point S7.

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.

Previous variation EPR/XP3839XV/V004 - Chapter III/Annex V variation

The requirements of the IED 2010/75/EU are given force in England through the EPR 2016. This permit, for the operation of LCP, as defined by articles 28 and 29 of the IED, already implements the special provisions for LCP given in the IED. The IED makes special provisions for LCP under Chapter III and contains emission limit values (ELVs) applicable to LCP, referred to in Article 30(2) and set out in Annex V.

The Operator chose to operate LCP 320 under the emission limit value (ELV) compliance route.

This variation also removed the Section Part 1.2 A(1)(a) refining activity for the new gas pipe-line and made changes to the noise conditions.

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

This is a natural gas-fired combined heat and power (CHP) plant located within the Wilton International site boundary, centred on National Grid Reference NZ571 219. This installation is intended to supply electrical power, high pressure (HP) and intermediate pressure (IP) steam into the various Wilton International distribution systems and the National Grid.

It falls under the following IED Schedule 1 listed activity description:

Section 1.1 Part A(1)(a) – Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts.

The 133 MWth Wilton No. 2 gas turbine (LCP 320) incorporates a Combined Cycle Gas Turbine (CCGT) and a 70 MWth single pressure heat recovery steam generator (HRSG) which is capable of 162 tonnes/hour of intermediate pressure (IP) steam at 18 barg and 300 °C or 100 tonnes/hour of high pressure (HP) steam at 96 barg and 320 °C. The turbine runs on natural gas and vents through a 50m high single stack, at emission point A6. Boiler feed-water comes from the Wilton site demineralised water ring main, as does a supply of low pressure steam.

Emissions to air from the installation are oxides of nitrogen (NO_x), carbon monoxide (CO) and sulphur dioxide (SO₂). NO_x is minimised by dry low NO_x (DLN) burners, and good combustion control is used to minimise NO_x and CO. SO₂ is minimised by the use of natural gas as a fuel.

A pipeline from the Egdon Resources UK Limited refining facility at Kirkleatham, near Wilton, can supply natural gas to the site (EPR/XP3839XV/V002). Natural gas is also supplied by the National Grid.

Emissions to sewer are from a continuous boiler blow-down which is cooled using raw water from the site ring main. The emissions to sewer discharge under an internal consent to the SembCorp Utilities controlled Wilton drainage system and then under a Water Resources Act discharge consent to Dabholme Gut and the River Tees.

There are no Sites of Special Scientific Interest (SSSI's) within 2km of the installation although there are Special Areas of Conservation (SAC) and Special Protection Areas (SPA) habitats sites within 10km of the site. These include Teesmouth and Cleveland Coast which is the closest at 3.6km, and the North Yorkshire Moors.

At the time of variation EPR/XP3839XV/V005, the site was working towards ISO 14001 certification of the sites Environmental Management System (EMS). The EMS is integrated into the other Sembcorp Utilities sites on Wilton.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application received EPR/XP3839XV/A001	14/03/2008	Duly made
Additional Information received	03/07/2008	Requested 23/06/2008
Additional Information received	09/07/2008	
Permit determined EPR/XP3839XV	03/10/2008	Permit issued to SembCorp Utilities (UK) Limited
Variation application EPR/XP3839XV/V002	05/07/2010	Duly made
Variation issued EPR/XP3839XV/V002	17/09/2010	
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 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	31/03/2015	Response received from the operator.
Additional information received	07/08/2015	Response to request for further information dated 25/06/2015.
Additional information received	18/12/2015	Response to request for further information dated 15/12/2015.
Variation determined EPR/XP3839XV/V003	23/12/2015	Varied and consolidated permit issued in modern condition format effective from 01/01/2016
Environment Agency initiated variation EPR/XP3839XV/V004	02/03/2017	To correct the SO ₂ monitoring requirements in table S3.1 in accordance with IED requirements.
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 BAT Reference Document for LCP.
Regulation 61 Notice response	19/03/2019	Response received from the operator.
Response to request for information sent to the operator 23/01/2020	13/03/2020	Response received from the operator.
Additional information received	01/04/2020	BAT Conclusions 40 and 44.
Additional information received	04/05/2020	LCP thermal inputs.
Variation issued EPR/XP3839XV/V005 (Billing ref: LP3404BT)	27/05/2020	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

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 and consolidates

Permit number

EPR/XP3839XV

Issued to

Sembcorp Utilities (UK) Limited (“the operator”)

whose registered office is

**Sembcorp UK Headquarters
Wilton International
Middlesbrough
Cleveland
TS90 8WS**

company registration number **4636301**

to operate a regulated facility at

**Wilton No.2 Gas Turbine
Sembcorp UK Headquarters
PO Box 1985
Wilton International
Middlesbrough
Cleveland
TS90 8WS**

to the extent set out in the schedules.

Name	Date
Anne Lloyd	27/05/2020

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/XP3839XV

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/XP3839XV/V005 authorising,

Sembcorp Utilities (UK) Limited (“the operator”),

whose registered office is

**Sembcorp UK Headquarters
Wilton International
Middlesbrough
Cleveland
TS90 8WS**

company registration number **4636301**

to operate an installation at

**Wilton No.2 Gas Turbine
Sembcorp UK Headquarters
PO Box 1985
Wilton International
Middlesbrough
Cleveland
TS90 8WS**

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

Name	Date
Anne Lloyd	27/05/2020

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 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 The activities shall be operated in accordance with the “Electricity Supply Industry IED Compliance Protocol for Utility Boilers and Gas Turbines” revision 1 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 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 S1.5.
- 2.3.6 The effective Dry Low NO_x threshold shall conform to the specifications set out in schedule 1, tables S1.2 and S1.6.
- 2.3.7 The emission limit values for emission point A6 listed in tables S3.1 and S3.1a of schedule 3 following the issue of a Black Start Instruction by the National Grid shall be disregarded for the purposes of compliance whilst that instruction remains effective and in accordance with the report submitted in response to improvement condition IC12 in table S1.3 of this permit.
- 2.3.8 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.
- 2.3.9 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

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

2.5 Pre-operational conditions

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.1a 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; and
 - (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.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, S3.1a 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, S3.1a, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Monitoring for Large Combustion Plant

- 3.6.1 All monitoring required by this permit shall be carried out in accordance with the provisions of Annex V of the Industrial Emissions Directive and the Large Combustion Plant Best Available Techniques Conclusions.
- 3.6.2 If the monitoring results for more than 10 days a year are invalidated within the meaning set out in condition 3.6.7, the operator shall:
- (a) within 28 days of becoming aware of this fact, review the causes of the invalidations and submit to the Environment Agency for approval, proposals for measures to improve the reliability of the continuous measurement systems, including a timetable for the implementation of those measures; and
 - (b) implement the approved proposals.
- 3.6.3 Continuous measurement systems on emission points from the LCP shall be subject to quality control by means of parallel measurements with reference methods at least once every calendar year.
- 3.6.4 Unless otherwise agreed in writing by the Environment Agency in accordance with condition 3.6.5 below, the operator shall carry out the methods, including the reference measurement methods, to use and calibrate continuous measurement systems in accordance with the appropriate CEN standards.
- 3.6.5 If CEN standards are not available, ISO standards, national or international standards which will ensure the provision of data of an equivalent scientific quality shall be used, as agreed in writing with the Environment Agency.
- 3.6.6 Where required by a condition of this permit to check the measurement equipment, the operator shall submit a report to the Environment Agency in writing, within 28 days of the completion of the check.
- 3.6.7 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3, tables S3.1 and S3.1a; the Continuous Emission Monitors shall be used such that:
- (a) for the continuous measurement systems fitted to the LCP release points defined in tables S3.1 and S3.1a the validated daily, hourly, monthly and yearly averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval;
 - (b) the 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%;
 - (c) the 95% confidence interval for dust releases of a single measured result shall be taken to be 30%;
 - (d) the 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%;
 - (e) an invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system. However, to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least two thirds of the period. Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing; and
 - (f) any day, in which more than three hourly average values are invalid shall be invalidated.

4 Information

4.1 Records

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

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

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

4.2 Reporting

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

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

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the resource efficiency metrics set out in schedule 4 table S4.2; 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), 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
AR1	Section 1.1 Part A(1) (a) Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more	LCP 320 Operation of a CCGT comprising one 133 MWth gas turbine (GT2) and a 70 MWth heat recovery steam generator (HRSG) fuelled by natural gas for the production of electricity and steam.	From receipt of raw materials, generation of electricity and steam to despatch of electricity/steam to the Wilton site distribution systems and the National Grid, and the handling and despatch of any exhaust gases and waste.
Directly Associated Activity			
AR2	Directly associated activity	Surface water collection	From handling and storage of surface water until discharge to site sewer.
AR3	Directly associated activity	Operation of cooling systems	Operation of cooling systems for the cooling of boiler blow-down.
AR4	Directly associated activity	Oil storage	From receipt of raw materials to despatch for use.
AR5	Directly associated activity	Waste oil storage.	From on-site storage until removal from site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/XP3839XV/A001	Sections 2.1, 2.2 and 2.9.4 in the application.	14/03/2008
Original permit EPR/XP3839XV	The venting of steam during start up shall be minimised between the hours of 22:00hrs and 08:00hrs on any calendar day, except where it is essential to maintain plant security.	03/10/2008
Original permit EPR/XP3839XV	The inspection and maintenance of silencing equipment as described in permit application section 2.9.4.1, to be used on all equipment listed in Table 2.9-3 of the IPPC application.	03/10/2008
Receipt of additional information to the application	Response to Improvement Condition IC2, a Noise Management Plan.	27/05/2009
Receipt of information supporting variation application EPR/XP3839XV/V002	All sections of the variation application.	05/07/2010

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to regulation 60(1) Notice – request for information dated 31/10/2014	Compliance route(s) and operating techniques identified in response to questions 2 (compliance route), 4 (LCP configuration), 5 (net rated thermal input), 6 (MSUL/MSDL), 9i,iii (Proposed ELV's, ELV between MSUL/MSDL and 70% load)	31/03/2015
Receipt of additional information to the regulation 60(1) Notice. requested by letter dated 25/06/2015	Compliance route and operating techniques identified in response to 4 (LCP configuration), 5 (net rated thermal input), 6 (MSUL/MSDL), 9i, iii (Proposed ELV's, ELV between MSUL/MSDL and 70% load), 11 (monitoring requirements).	07/08/2015
Response to regulation 61(1) Notice – request for information dated 01/05/2018 EPR/XP3839XV/V005	Compliance and operating techniques identified in response to the BAT Conclusions for LCP published on 17 August 2017.	19/03/2019
Response to request for further information sent 23/01/2020 EPR/XP3839XV/V005	Compliance and operating techniques identified in response to the BAT Conclusions 1, 2, 5, 10, 12, 16, 40, 42 and 44 for LCP published on 17 August 2017.	13/03/2020
Improvement condition IC13	Approved updated noise management plan submitted in response to IC13 in table S1.3 of this permit. This shall supersede the noise management plan received 27/05/2009.	Date of approval by the Environment Agency

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The operator shall submit the monitoring data for the continuous monitoring of particulates from emission point A6. A report should be sent to the Agency at the reporting address.	Complete
IC2	The operator shall produce a noise management plan with reference to the Environment Agency H3 guidance for Noise. A copy of the noise management plan should be sent to the Agency at the reporting address.	Complete
IC3	The operator shall undertake an H1 environmental assessment of the emissions to air from the continuous monitoring of A6. The H1 report shall be sent to the Agency at the reporting address.	Complete
IC4	The operator shall take representative samples of the effluent discharged from S7. The samples shall be analysed for: Oil, BOD, COD, pH, suspended solids, chlorine (as hypochlorite) or chloride, ammoniacal nitrogen, nitrates, sulphates, phosphates, metals suite (arsenic, barium, boron, cadmium, chromium, copper, lead, manganese, mercury, molybdenum, nickel, selenium, vanadium and zinc). The measurement methods should follow Appendix 1 of Sector Guidance Note S4.01 and the Agency document M18, unless otherwise agreed in writing with the Agency. The temperature and flow of the discharge to W1 should also be obtained. The data should be used to undertake an environmental impact assessment of the releases from S7. A written report shall be sent to the Agency at the reporting address.	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC5	The operator shall undertake noise surveys according to the requirements of BS4142:1997. These background noise surveys should be undertaken quarterly for a period of 12 months. The location and timing for the noise monitoring shall be at the points specified in Table 2.9-2 of the IPPC. A written report of the monitoring shall be sent to the Environment Agency at the reporting address.	Complete
IC6	The operator shall carry out a water minimisation audit with regard to section 2.4.3 of the sector guidance note S4.01. The report should include the methodology used and a comparison against the indicative BAT found in the sector guidance. The report shall include a water flow diagram, water mass balance and water efficiency objectives. Where improvements can be made that are considered BAT a timetable for their inclusion should be included. The written report should be sent to the Agency at the reporting address.	Complete
IC7	The operator shall provide a report in writing to the Environment Agency for acceptance which provides the net rated thermal input for LCP 320. 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). Evidence to support this figure, in order of preference, shall be in the form of:- 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, *Performance test results shall be used if these are available. Use this IC where you are not satisfied with the Operator's evidence for the Net Thermal input figure(s) they have given.	31/12/2016
IC8	The operator shall write to the Environment Agency for approval if an increase in the ELV limits set in table S3.1 of this permit is sought to the allowable limits set out in IED Annex V, Part 1, and paragraph 6. The written submission from the operator shall contain :- <ul style="list-style-type: none"> • Verification of the efficiency quoted for the plant; • An assessment of any efficiency gains that may be gained through the limit increase together with detailed proposals for validating this figure; • An assessment of the impact of those increased emission limits from site on any air quality objectives; • Any impact the increased emissions might have on local receptors. 	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC9	<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. 	31/01/2016
IC10	<p>The operator shall provide a report, in writing, to the Environment Agency for acceptance, which identifies a daily emission limit value (ELV) for MSUL/MSDL to baseload. The written submission shall include a summary of relevant data with reference to the data sets used and a justification for the proposed ELV. The report shall also include an assessment of the impacts emissions at the proposed ELV using our H1 guidance equivalent methodology.</p>	31/01/2016
IC11	<p>For LCPD LCP 429 (now LCP 320 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>	Complete
IC12	<p><u>Black start operations</u></p> <p>A written report shall be submitted to the Environment Agency for approval. The report shall contain an impact assessment demonstrating that there is no significant environmental risk associated with black start operations and propose a methodology for minimisation of environmental impact during such a period of operation and for reporting instances of black start operation.</p> <p>The plant can be operated as set out in condition 2.3.7 of the permit once the report has been approved by the Environment Agency. The methodology for operation and reporting set out in the report shall be implemented by the Operator from the date of approval by the Environment Agency.</p>	31/05/2021

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC13	<p><u>Minimising noise</u></p> <p>The operator shall submit an updated noise management plan to the Environment Agency for approval. The updated plan shall ensure that the following controls are in place:</p> <ul style="list-style-type: none"> - Night-time noise is minimised by not starting GT1 or venting steam between 22:00 hours and 08:00 hours on any calendar day, except in an 'emergency' where it is essential to maintain site security; - A definition for 'emergency' operation; - No routine maintenance shall occur during night-time hours of 22:00 hours and 08:00 hours on any calendar day; - Silencing equipment on all plant relief valve exhaust vents shall be maintained as necessary to maintain correct operation and inspected to the preventative maintenance schedule. <p>The approved noise management plan shall be incorporated into table S1.2 of this permit.</p>	30/11/2020
IC14	<p><u>BAT Conclusions 2, 40, table 23</u></p> <p>The operator shall provide a report detailing the net total fuel utilisation for the plant, which shall be in accordance with the BAT AEEL range specified in table 23 of the LCP BAT Conclusions document, which for this plant is between 65-95%. This shall be based upon performance testing of the plant.</p>	01/06/2021
IC15	<p><u>BAT Conclusion 9</u></p> <p>The operator shall submit a procedure for approval outlining how the Natural gas from Egdon Resources will be characterised in line with BAT Conclusion 9 in order to improve general performance of combustion and to reduce emissions to air. The procedure shall include, but is not limited to, the following elements:</p> <ul style="list-style-type: none"> - Initial fuel characterisation; - Regular testing of the fuel quality to check that it is consistent with the initial characterisation and according to the plant design specifications; and - Subsequent adjustments of the plant settings as and when needed and practicable. 	01/06/2021

Table S1.4 Pre-operational measures		
Reference	Pre-operational measures	Date
1	The operator shall submit a report before the start of operation demonstrating that the necessary procedures are in place for the operation of the Gas Turbine and staff have received the necessary training.	Complete
2	The operator shall submit a report demonstrating that all bulk liquid storage tanks, pipelines and secondary containment have been leak-tested before the start of operations.	Complete
3	The operator shall submit a report before the start of operation detailing the methods to be used and the frequency for all monitoring points for the emissions to sewer in accordance with Agency guidance M18. ^{Note 1}	Complete
4	The operator shall submit a report before the start of operation detailing the methods to be used for the continuous monitoring of temperature; pressure and water vapour content from release point A6.	Complete
Note 1: Refer to table S3.3 of this permit.		

Table S1.5 Start-up and Shut-down thresholds		
Emission Point and Unit Reference	“Minimum start up load” Load in MW and as percent of the GT rated power output	“Minimum shut-down load” Load in MW and as percent of the GT rated power output (%)
A6 LCP 320	26 MW; 62% ^{Note 1}	26 MW; 62% ^{Note 1}
Note 1: Start-up and shut-down thresholds shall be subject to the submission provided in response to IC9 in table S1.3 of this permit.		

Table S1.6 Dry Low NOx effective definition	
Emission Point and Unit Reference	Load in MW and as percent of rated power output (%)
A6 LCP 320	26 MW; 62% ^{Note 1}
Note 1: Dry Low NOx effective definition shall be subject to the submission provided in response to IC9 in table S1.3 of this permit.	

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	-
Natural gas from Egdon Resources	Less than 50 mg/m ³ total sulphur content ^{Note 1}
Note 1: Refer to IC15 in table S1.3 of this permit for fuel characterisation.	

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air from the gas turbine - emission limits and monitoring requirements shall apply until 16 August 2021						
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
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	50mg/m ³ 70% to base load ^{Note 1}	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	55mg/m ³ 70% to base load ^{Note 1} 55mg/m ³ MSUL/MSDL to base load <small>Notes 2 and 4</small>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	100mg/m ³ 70% to base load ^{Note 1}	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	100mg/m ³ 70% to base load ^{Note 1}	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	100mg/m ³ 70% to base load ^{Note 1} 100mg/m ³ MSUL/MSDL to base load <small>Notes 2 and 4</small>	Daily mean of validated hourly averages	Continuous	BS EN 14181

Table S3.1 Point source emissions to air from the gas turbine - emission limits and monitoring requirements shall apply until 16 August 2021						
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
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	200mg/m ³ 70% to base load ^{Note 1}	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A6 ^{Note 3}	Sulphur dioxide	LCP 320 Gas turbine fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing by the Environment Agency
A6 ^{Note 3}	Oxygen	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	BS EN 14181
A6 ^{Note 3}	Water vapour	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	BS EN 14181
A6 ^{Note 3}	Stack gas temperature	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	Traceable to national standards
A6 ^{Note 3}	Stack gas pressure	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	Traceable to national standards
A6 ^{Note 3}	As required by the Method Implementation Document for BS EN 15259	LCP 320 Gas turbine fired on natural gas	-	-	Pre-operation and when there is a significant operational change	BS EN 15259

Table S3.1 Point source emissions to air from the gas turbine - emission limits and monitoring requirements shall apply until 16 August 2021						
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
<p>Note 1: This ELV applies when the load is >70% throughout the reference period.</p> <p>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 of this permit.</p> <p>Note 3: Emission point A6 on site plan in Figure 2.2-1 of the application EPR/XP3839XV/A001.</p> <p>Note 4: Emission limit shall be subject to the submission provided in response to IC9 and IC10 in table S1.3 of this permit.</p>						

Table S3.1a Point source emissions to air from the gas turbine - emission limits and monitoring requirements shall apply from 17 August 2021						
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
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	45 mg/m ³ When DLN is effective to base load ^{Note 1}	Yearly average	Continuous	BS EN 14181
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	50mg/m ³ When DLN is effective to base load ^{Note 1}	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	55mg/m ³ When DLN is effective to base load ^{Note 1} 55mg/m ³ MSUL/MSDL to base load ^{Notes 2 and 4}	Daily mean of validated hourly averages	Continuous	BS EN 14181

Table S3.1a Point source emissions to air from the gas turbine - emission limits and monitoring requirements shall apply from 17 August 2021						
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
A6 ^{Note 3}	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	LCP 320 Gas turbine fired on natural gas	100mg/m ³ When DLN is effective to base load ^{Note 1}	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	30 mg/m ³ When DLN is effective to base load ^{Note 1}	Yearly average	Continuous	BS EN 14181
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	100mg/m ³ When DLN is effective to base load ^{Note 1}	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	100mg/m ³ When DLN is effective to base load ^{Note 1} 100mg/m ³ MSUL/MSDL to base load ^{Notes 2 and 4}	Daily mean of validated hourly averages	Continuous	BS EN 14181
A6 ^{Note 3}	Carbon monoxide	LCP 320 Gas turbine fired on natural gas	200mg/m ³ When DLN is effective to base load ^{Note 1}	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A6 ^{Note 3}	Sulphur dioxide	LCP 320 Gas turbine fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing by the Environment Agency

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

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
A6 ^{Note 3}	Oxygen	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	BS EN 14181
A6 ^{Note 3}	Water vapour	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	BS EN 14181
A6 ^{Note 3}	Stack gas temperature	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	Traceable to national standards
A6 ^{Note 3}	Stack gas pressure	LCP 320 Gas turbine fired on natural gas	-		Continuous As appropriate to reference	Traceable to national standards
A6 ^{Note 3}	Stack gas volume flow	LCP 320 Gas turbine fired on natural gas	-	-	Continuous	BS EN 16911
A6 ^{Note 3}	As required by the Method Implementation Document for BS EN 15259	LCP 320 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 DLN is effective throughout the reference period. DLN effective is defined in table S1.6 of this permit.

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 of this permit.

Note 3: Emission point A6 on site plan in Figure 2.2-1 of the application EPR/XP3839XV/A001.

Note 4: Emission limit shall be subject to the submission provided in response to IC9 and IC10 in table S1.3 of this permit.

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S7 [On site plan in Figure 2.2-1 of the application EPR/XP3839XV/A001]	Not applicable	Boiler blow-down	Not applicable	Not applicable	Not applicable	Not applicable

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
S7 ^{Note 2}	pH	Continuous	Note 1	-
S7 ^{Note 2}	Flow	Continuous	Note 1	-
S7 ^{Note 2}	Total organic carbon (TOC)	Continuous	Note 1	-
S7 ^{Note 2}	Temperature	Continuous	Note 1	-
LCP 320	Net total fuel utilisation	After each modification that could significantly affect these parameters	EN Standards or equivalent	Note 3

Note 1: In accordance with the methods supplied and approved for pre-operational condition 3 in table S1.4 of this permit.

Note 2: Point S7 on site plan in Figure 2.2-1 of the application EPR/XP3839XV/A001.

Note 3: Note 1 to LCP BAT Conclusion 2 is applicable, this states that ‘In the case of CHP units, if for technical reasons the performance test cannot be carried out with the unit operated at full load for the heat supply, the test can be supplemented or substituted by a calculation using full load parameters.’

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	A6	Every 3 months	1 January, 1 April, 1 July, 1 October
		Every year	1 January
Carbon monoxide	A6	Every 3 months	1 January, 1 April, 1 July, 1 October
		Every year	1 January
Sulphur dioxide	A6	Every year	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S7	Every 6 months	1 January, 1 July

Table S4.2 Annual production/treatment	
Parameter	Units
Power generated	GWhr

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 LCP 320	Annually	MW
Annual Fuel Usage for LCP 320	Annually	TJ
Total Emissions to Air of NO _x for LCP 320	Annually	t
Total Emissions to Air of SO ₂ for LCP 320	Annually	t
Total Emissions to Air of dust for LCP 320	Annually	t
Operating Hours for LCP 320 (Load Factor)	Annually	hour

Table S4.4 Reporting forms		
Media/ parameter	Reporting format	Agency recipient
Air & Energy	Form IED AR1 – NO _x , SO ₂ 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 CON 2 – continuous monitoring Form as agreed in writing by the Environment Agency.	Area Office
CEMs	Form IED CEM – Invalidation Log 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
Sewer	Form Sewer 1 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	EPR/XP3839XV
Name of operator	Sembcorp Utilities (UK) Limited
Location of Facility	Wilton International
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.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

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

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

“base load” means: (i) as a mode of operation, operating for >4000hrs pa; and (ii) as a load, the maximum load under ISO conditions that can be sustained continuously, i.e. maximum continuous rating.

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

“calendar monthly mean” means the value across a calendar month of all validated hourly means.

“CEN” means Comité Européen de Normalisation.

“Combustion Technical Guidance Note” means IPPC Sector Guidance Note Combustion Activities, version 2.03 dated 27th July 2005 published by Environment Agency.

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

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“DLN” means dry, low NO_x burners.

“emissions to land” includes emissions to groundwater.

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

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 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.

“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.

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

“operational hours” are whole hours commencing from the first unit ending start up and ending when the last unit commences shut down.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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:

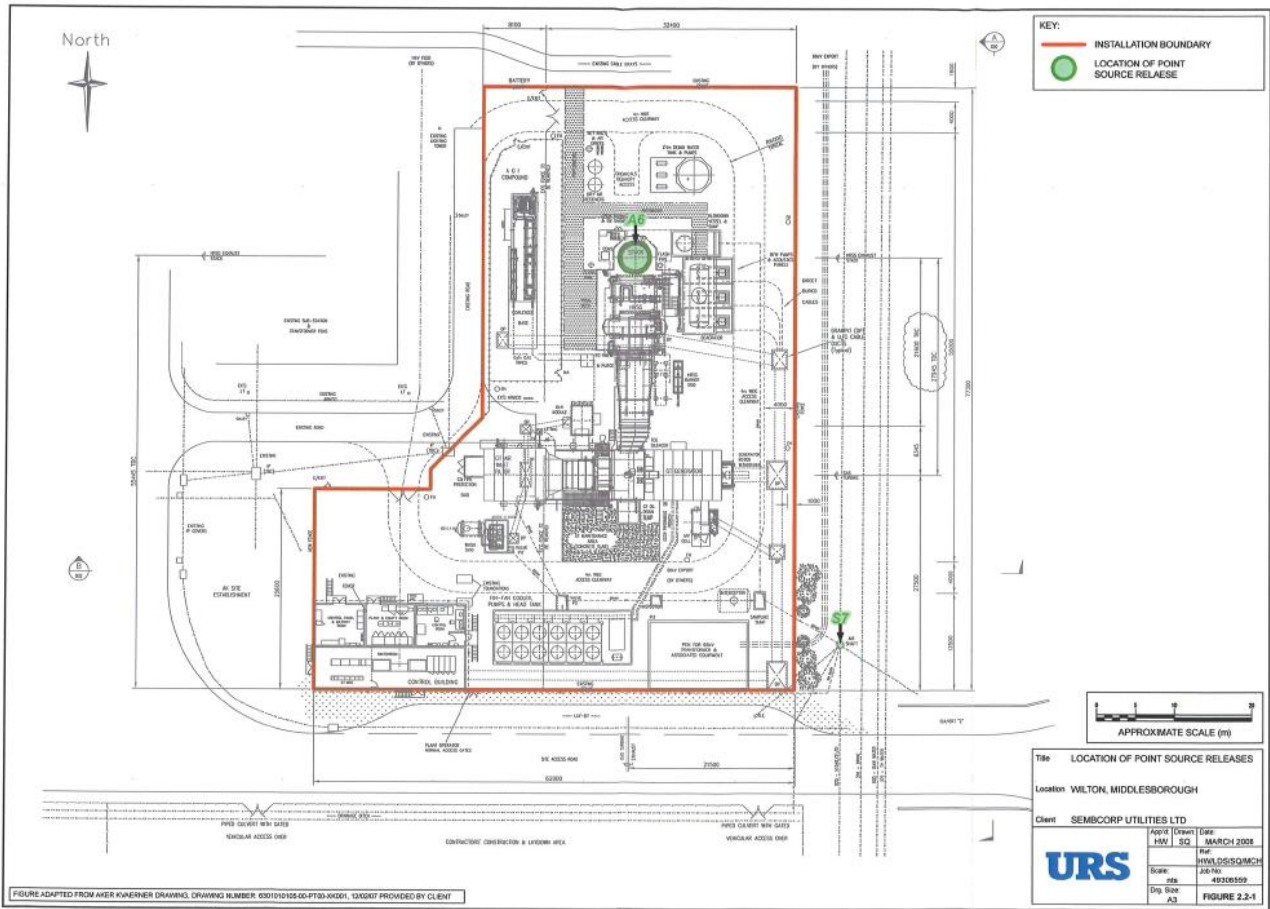
- in relation to emissions from gas turbine or compression ignition engine combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or
- in relation to emissions from combustion processes comprising a gas turbine with a waste heat boiler, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry, unless the waste heat boiler is operating alone, in which case, with an oxygen content of 3% dry for liquid and gaseous fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

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

Schedule 7 – Site plan

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END OF PERMIT