Notice of variation, surrender and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

GlaxoSmithKline Research & Development Limited

Stevenage Energy Centre
Medicines Research Centre
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2NY

Partial Surrender application number

EPR/YP3236SA/S008

Variation application number

EPR/YP3236SA/V009

Permit number

EPR/YP3236SA

Stevenage Energy Centre
Permit number EPR/YP3236SA

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the partial surrender and variation of the environmental permit.

Any changes made as a result of the partial surrender and variation are set out in the schedules.

The partial surrender application concerns the removal of one of the buildings from the permit site plan. The building has previously been decommissioned and demolished. We have also carried out an Environment Agency initiated variation to correct some outstanding issues from the previous variation V007.

We consider that in reaching our decision to vary the permit we have taken into account all relevant considerations and legal requirements. We are satisfied that the permit will ensure that a high level of protection is provided for the environment and human health and that the activities will not give rise to any significant pollution of the environment or harm to human health.

The rest of the installation is unchanged, and the main features of the installation are:

The Stevenage Energy Centre is run by GlaxoSmithKline Research and Development Limited (GSK) under a Section 1.1 A(1) (a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more. The installation is located on a bigger site known as the Stevenage Medicines Research Centre. The installation is approximately 1km south of Stevenage town centre and is centred on National Grid Reference TL 24006 22270.

The installation's topography is generally level with a slight gradient to Stevenage Brook, located approximately 200 metres to the east. The land use around the installation is predominantly commercial and industrial, with a golf course and farmland to the south. The A1(M) runs to the west of the installation and the East Coast main railway line to the east. There is one Site of Special Scientific Interest, Knebworth Woods, located approximately 750 metres to the west of the installation.

The installation is underlain by the Chalk Aquifer. The Chalk is the principal aquifer in the area and is classified as a major aquifer capable of supporting large extractions. The geology of the installation is considered to be medium to high permeability.

Foul drainage from the installation joins effluent from the other areas of the R&D Facility, before flowing to the main site outfall (emission point S4); located to the NE. Foul drainage is treated in the Rye Meads Sewage Treatment Works before discharge to the River Lea. The outfall comprises a large underground holding tank, isolation penstock, outfall chamber, monitoring station and pumping chambers. The penstock and holding tank provide containment for emergency flows from the site.

Flows from building roofs, roads and hard standings (including the tanker off-loading area at the computer centre car park) discharge to the surface water drainage system. This system is routed to the site surface water outfall, located to the NE where it discharges into the Stevenage Brook. Isolation penstocks provide local containment in the event of an emergency.

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 YP3236SA	Duly made 23/03/2006	
Additional information received	14/12/2006	Description of the setup of boiler flues
Permit determined YP3236SA	19/12/2006	
Application EPR/YP3236SA/V002 (variation and consolidation)	Duly made 01/04/2015	Application to vary and update the permit to modern conditions
Variation determined EPR/YP3236SA	23/06/2015	Varied and consolidated permit issued
Application EPR/YP3236SA/V003 (variation)	19/10/2016	Application to correct the boiler ELVs
Variation determined EPR/YP3236SA	07/11/2016	Varied permit issued
Application for part surrender EPR/YP3236SA/S004 and variation EPR/YP3236SA/V005	Duly Made 14/04/2023	Application to vary and part surrender the permit. The variation is to change the water boiler pre-treatment technique and rationalise sewer emission points. The partial surrender is to remove an area of land where installation activities do not take place.
Additional Information	18/05/2023	Email containing updated site maps and information regarding effluent and chemical bunding.
Additional Information	19/05/2023	Email containing information about pre-boiler treatment effluent
Part surrender determined EPR/YP3236SA/S004	04/07/2023	Part surrender complete
Variation determined EPR/YP3236SA/V005	05/07/2023	Varied and consolidated permit issued
Application EPR/YP3236SA/V006 (variation and consolidation)	Duly made 17/09/24	Application to replace one of the backup diesel generators.
Variation determined and consolidation issued EPR/YP3236SA	30/04/25	Varied and consolidated permit issued in modern format. Includes an Environment Agency initiated variation following Medium Combustion Plant permit review.
Application EPR/YP3236SA/V007 (variation and consolidation)	Duly made 05/12/25	Application to add standby generators
Variation determined and consolidation issued EPR/YP3236SA	20/02/26	Varied and consolidated permit issued in modern format
Application for partial surrender/YP3236SA/S005	Duly Made 11/08/26	Low risk partial surrender. The surrender is to remove from the permit part of the installation previously decommissioned.
Environment Agency Initiated Variation EPR/YP3236SA/V008	Duly made 04/09/26	Admin Variation to address issues from V007
Variation and partial surrender issued EPR/YP3236SA/V009 EPR/YP3236SA/S008	06/11/26	Variation and partial surrender determined

End of introductory note

Notice of partial surrender and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 and 25 of the Environmental Permitting (England and Wales) Regulations 2016 accepts the surrender in part and varies

Permit number

EPR/YP3236SA

Issued to

GlaxoSmithKline Research & Development Limited ("the operator")

whose registered office is

79 New Oxford Street
London
WC1A 1DG

company registration number 00835139

to operate a regulated facility at

Stevenage Energy Centre
Medicines Research Centre
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2NY

to the extent set out in the schedules.

The notice shall take effect from 06/11/2026

Name	Date
Farah Hasson	**06/11/2026**

Authorised on behalf of the Environment Agency

Schedule 1

Note: The conditions numbers used in this schedule refer to those in the consolidated permit.

The following conditions were varied as a result of the application made by the operator:

The site plan in schedule 7 of the permit was varied to remove the area of land associated with the partial surrender.

The following conditions were varied as a result of an Environment Agency initiated variation:

The site plan in schedule 7 of the permit was varied to include pipelines and to update the location of emission point S4.

Table S3.1 is amended to correct the monitoring frequency for emission points A5, A6 and A8.

Table S4.1 is amended to correct the reporting frequency for emission points A5, A6 and A8.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/YP3236SA

This is the consolidated permit referred to in the surrender, variation and consolidation notice for application EPR/YP3236SA/S008 and EPR/YP3236SA/V009 and authorising,

GlaxoSmithKline Research & Development Limited ("the operator"),

whose registered office is

79 New Oxford Street
London
WC1A 1DG

company registration number 00835139

to operate an installation at

Stevenage Energy Centre
Medicines Research Centre
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2NY

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

Name	Date
Farah Hasson	**06/11/2026**

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) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) 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; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 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.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 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.

2.3.5 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.

2.3.6 For MCPs specified in Schedule 1 Table S1.1, AR1:

(a) the operator must keep periods of start-up and shut down of the combustion plant as short as possible.

(b) there shall be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

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 table 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 continual), 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 3.3.1 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 table S3.1 unless otherwise agreed in writing by the Environment Agency.

3.5.5 The first monitoring measurements shall be carried out:

(a) within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later for new MCPs; and

(b) at any time for existing MCPs, but no later than the relevant compliance date.

3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut down.

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.

4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.

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 annual production /treatment data 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 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

(c) any change in the operator's name or address; and

(d) any steps taken with a view to the dissolution of the operator.

In any other case:

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

(f) any change in the operator's name(s) or address(es); and

(g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

(a) a decision by the Secretary of State not to re-certify the agreement;

(b) a decision by either the operator or the Secretary of State to terminate the agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.3.8 The operator shall notify the Environment Agency, as soon as is practicable, in writing of any change of MCP at the specified location.

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 and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	Section 1.1 A(1) (a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more	Total aggregated thermal input of MCP is 74.68 MWth of which: 3 x 13.5 MWth steam boiler under combined stack 2 x 5.35 MWth CHP under combined stack 2 x 4 MWth existing diesel generators and 1 x 3.8 MWth new diesel generator under combined stack 3 x 3 MWth existing diesel generators under combined stack 2 x 1.34 MWth new diesel generators under combined stack	From receipt of natural gas or gas oil to despatch of products, the discharge of combustion gases, discharge of effluent to sewer and the disposal of wastes arising. The steam boilers shall operate for no more than 1500 hours per year when operating on gas oil. Generators shall be operated for no - more than 50 hours per year for testing purposes, and no more than 500 hours per year as in an emergency.
	Directly Associated Activity		
AR2	Storage	Oil storage.	From receipt of raw materials to use within listed activity.
AR3	Treatment	Boiler Water pre-treatment	From receipt of raw materials to discharge of effluent to sewer.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Original permit application EPR/YP3236SA/A001	The response to sections 2.1 and 2.2 given in section 2 in the application	23/03/2006
Variation application EPR/YP3236SA/V002	Application document RUK1120774_GSK_Application_2	01/04/2015
Variation and Partial Surrender Application EPR/YP3236SA/V004	Environmental Risk Assessment (received 28/03/2023) Operations Report Environmental Permit Variation Application (received 14/04/2023)	14/04/2023
Additional Information	Additional Information on bunding and pre-treatment wastewater (email reference: Request for Information Response) Site Map with emissions (reference: Emission Points & Permit Boundary)	18/05/2023

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The Operator shall prepare a written Accident Management Plan with regard to the requirements set out in Section 2.8 of the IPPC Technical Guidance Note for the Combustion Sector V2.03: Dated 27.07.05. Upon completion a copy of the Accident Management Plan shall be submitted to the Environment Agency for approval.	Completed
IC2	The Operator shall carry out improvements to the hardstanding and bunding within the installation as follows: - Install impervious hardstanding in the areas of: a) brine, caustic and hydrochloric acid unloading and storage; b) gas oil unloading - Install a bund around the brine storage tank in line with the requirements set out in Section 2.2.9 of the IPPC Technical Guidance Note for the Combustion Sector V2.03: Dated 27.07.05; - Provide local containment in the brine, hydrochloric acid and gas oil (computer centre car park) offloading areas so that any spills can be prevented from draining to surface water; and - Ensure that the integrity of the effluent balancing tank bund is not compromised by the penetration of the pipe at its base. A written report summarising the works carried out shall be submitted to the Environment Agency for approval.	Completed
IC3	A written site closure plan shall be submitted to the Agency for approval with regard to the requirements of section 2.11 of the IPPC Technical Guidance Note for the Combustion Sector V2.03: Dated 27.07.05. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.	Completed
IC4	A written procedure shall be submitted to the Agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure. The procedure shall be implemented by the operator from the date of approval in writing by the Environment Agency.	Completed

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Natural Gas	As supplied from National Transmission System (NTS)
Gas oil from 01/01/2008	Less than 0.1% w/w sulphur content

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1 [Boiler plant x3 co-located vents] TL24310 22093	Boiler plant fired on natural gas	Oxides of Nitrogen (expressed as NO_2)	180mg/m3	Hourly average	6 monthly	BS EN 14792
		Carbon Monoxide	No limit set	Periodic	Annually	BS EN 15058
A1 [Boiler plant x3 co-located vents] TL24310 22093	Boiler plant fired on gas oil	Oxides of Nitrogen (expressed as NO_2)	No limit set	Periodic	After 500 hours operation has elapsed or no less frequently than every 5 years	BS EN 14792
		Carbon Monoxide	No limit set	Periodic		BS EN 15058
A4 [Blowdown]	Boiler blowdown vent	No parameters set	No limit set	−	−	Permanent sampling access not required
A5 [Emergency generator, x3 co-located vents] TL24294 22137	Energy centre emergency generator vent (existing and new)	Oxides of Nitrogen (expressed as NO_2)	No limit set	Periodic	After 1500 hours operation has elapsed or no less frequently than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
		Carbon Monoxide	No limit set	Periodic		
A6 [Emergency generator x3 co-located vents] TL24073 22439	Computer centre emergency generator vent (existing)	Oxides of Nitrogen (expressed as NO_2)	No limit set	Periodic	After 1500 hours operation has elapsed or no less frequently than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
		Carbon Monoxide	No limit set	Periodic		

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A7 [CHP plan x2 co-located vents] TL24197 22206	CHP plant	Oxides of Nitrogen (expressed as NO_2)	190mg/m3	Hourly average	6 monthly	BS EN 14792
		Carbon Monoxide	400mg/m3	Hourly average	6 monthly	BS EN 15058
A8 [Emergency generator x2 co-located vents] TL 23899 22035		Oxides of Nitrogen (expressed as NO_2)	No limit set	Periodic	After 1500 hours operation has elapsed or no less frequently than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
		Carbon Monoxide	No limit set	Periodic		
Vents from caustic and gas oil tanks	Caustic and gas oil tanks	No parameters set	No limit set	−	−	Permanent sampling access not required
Pressure relief valves	Boilers	No parameters set	No limit set	−	−	Permanent sampling access not required

Table S3.2 Point source emissions to water other than sewer - emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
W1 (site outfall)	Surface water from roofs, hardstanding and access roads	No parameters set	--	--	--	--

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	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S4 on Site Plan in Schedule 7. Emission to Thames Water WWTW	Boiler pre-treatment wastewater Bunded gas delivery oil area Energy Centre and CHP boiler blowdown	No parameters set	--	--	--	--

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**
Emissions to air Parameters as required by condition 3.5.1.	A1, A7	Every 6 months Every year for carbon monoxide	1 Jan, 1 Jul
	A5, A6, A8	After 1,500 operating hours have elapsed And no less frequent than every 5 years from date of acceptance of first monitoring measurements under condition 3.5.5	1 Jan

Table S4.2 Annual production/treatment		
Parameter		**Units**
Steam Generated	Annually	Tonnes
Generator operation for testing/maintenance Emission point: A5, A6, A8	Report to be submitted annually	- Total hours operation for the site (hours) - Total hours operation per generator (hours) - Total number of runs per generator (quantity) - Time per run (minutes)
Generator operation for emergency running Emission point: A5, A6, A8	Within 24 hours of emergency operation commencing	- Date and time of National Grid failure - Number of generators operating immediately after the failure - Number of generators operating two hours after failure - Anticipated duration of the mains supply failure (hours)
Generator operation for emergency running Emission point: A5, A6, A8	Annually	- Total number of runs - Duration of runs (hours)
Fuel usage Emission point: A5, A6, A8	Annually	- Fuel type - Tonnes
Boiler operation when fired on back up fuel Emission point A1	Annually	- Date and time of gas supply interruption - Total number of runs - Duration of runs (hours)

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	m^3
Gas usage	Annually	MJ

Gas oil usage	Annually	MJ
Total raw material used	Annually	tonnes
Power generated	Annually	MWh
Oil changes (Diesel Generator)	Every 6 months	Total number of changes and frequency

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of forms**
Air	Form Air 1 or other form as agreed in writing by the Environment Agency	April 2011
Water usage	Form Water Usage 1 or other form as agreed in writing by the Environment Agency	April 2011
Other performance indicators	Form Performance 1 or other form as agreed in writing by the Environment Agency	April 2011
Generators usage in Emergency and Triad modes	In a format to be agreed in writing by the Environment Agency	n/a

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) 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.

“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.

“EA TGN M5” means the ‘Environment Agency Technical Guidance Note M5: Monitoring of stack gas emissions from medium combustion plants and specified generators’ guidance published on Gov.UK.

“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**.**

“existing medium combustion plant” means an MCP in operation before 20 December 2018.

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

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

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24th November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“limited operating hours MCP” means an MCP that meets the requirements of paragraph 8 of Part 2 of Schedule 25A of the Environmental Permitting Regulations.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“medium combustion plant” or ”MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants.

“new medium combustion plant” means an MCP put in to operation on or after 20 December 2018.

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

“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.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

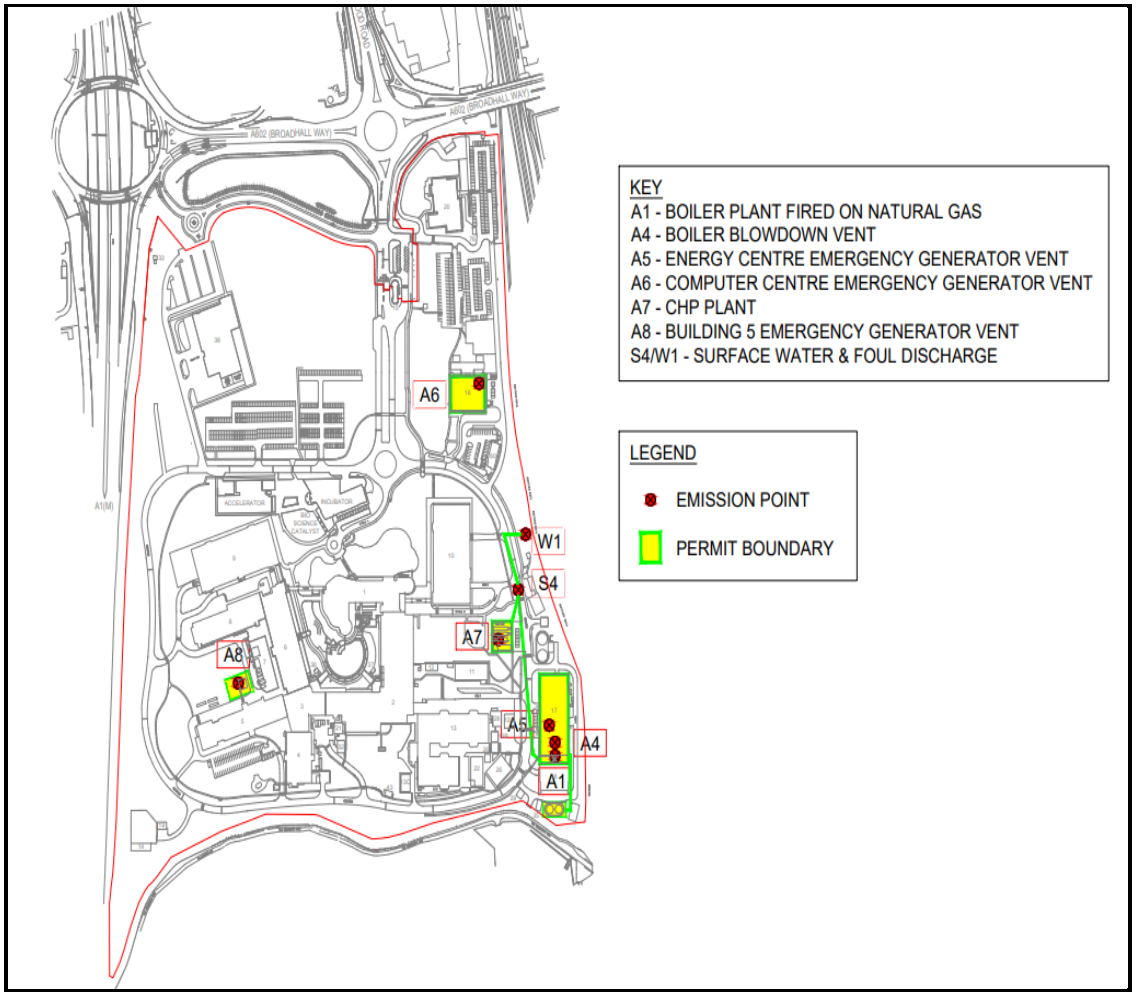
“year” means calendar year ending 31 December.

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 engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% 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.

Schedule 7 – Site plans



END OF PERMIT