

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Ark Data Centres Limited
Spring Park Data Centre
Ark Data Centres
Westwells Road
Corsham
Wiltshire
SN13 9GB

Variation application number

EPR/PP3003PW/V003

Permit number

EPR/PP3003PW

Spring Park Data Centre

Permit number EPR/PP3003PWF

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

The variation makes the following changes to the permit:

Addition of 16 standby generators within a new substation (SQ19). The thermal input of each generator is 5.660 MWth.

The total generating capacity and thermal input at the site will increase from the current 54 permitted standby generators with approximately 237.6 MWth in total to 70 units comprising approximately 328.2 MWth input in total.

Monitoring requirements for the new plant have been included.

Summary of the permitted installation

Campus	Facility	Full IT Capacity (MW(IT))	Generator Capacities		EPR/PP3003PW/V003	
			Rating (e) (kW)	Rating (th) (kW)	No. of Units	Rating (th) (kW)
Spring Park	SQ17	4	1,600	3,956	2	7,912
			1,520	3,301	3	9,903
			1,760	4,381	3	13,143
	P1	4.5	1,000	2,717	10	27,170
	P2	9	1,464	3,656	12	43,872
	HV Gen	24	2,040	5,650	24	135,600
	SQ19	13.5	2,024	5,660	16	90,560
Spring Park		41.5			70	328,160

This facility consists of the following scheduled activity under the Environmental Permitting (England and Wales) Regulations 2016:

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

As no individual plant is larger than 15 MWth, the activity falls under Chapter II of the IED. The plant are classed as medium combustion plant as part of a Chapter II installation. Medium Combustion Plant Directive (MCPD) requirements are fulfilled through compliance with Chapter II of Directive 2010/75/EU. The engines are classed as emergency/standby plant.

Each generator set (new and existing) has a double skinned belly tank. Each standby generator can hold up to 72 hours of fuel when running at full load. Each generator has an exhaust stack.

Surface run off from hardstanding areas is collected in channel drains and discharges to sewer or soakaway via oil interceptors. There are also rainwater harvesting systems for storm water.

The surrounding area is predominately commercial and residential with agriculture to the south. The nearest sensitive human receptors to the site are residential properties approximately 270 m to the East and 630 m to the North. The National Grid reference for the site is ST 84830 68848. The site is approximately 14.7 hectares in size.

There is one SAC (Special Area of Conservation) within 10km, two SSSIs (Sites of Special Scientific Interest) and 14 LWSs and AWs (Local wildlife sites and Ancient Woodlands) within 2km.

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

The schedules specify the changes made to the permit.

Status log of the permit		
Description	Date	Comments
Application EPR/PP3003PW/A001	Duly made 17/04/2019	Application for Data Centre operating 33 standby gas oil powered generators.
Response to Schedule 5 Notice dated 16/05/2019	28/06/2019	Additional information on the data centre BAT assessment, drainage, containment, noise assessment and air quality assessments.
Additional information	20/04/2020	Revised air quality assessment.
Permit determined EPR/PP3003PW	07/07/2020	Permit issued to Ark Data Centres Limited.
Application EPR/PP3003PW/V002 (variation and consolidation)	Duly made 05/07/2021	Application to vary and update the permit to modern conditions.
Response to Schedule 5#1 Notice dated 06/09/2021	08/11/2021	Additional information submitted including: revised air quality modelling; justification of stack height, stack arrangement and plant sizing; information on the maintenance and testing regime; clarification as to how the engines meet emission standards; information on emissions abatement; details of secondary containment measures; revised emissions points plan and details regarding management of fire risk.
Additional information	09/12/2021	Clarification on the Schedule 5 Notice response regarding: revised air quality air modelling, emissions standards, secondary containment, tertiary containment, revised emissions points plan and updated generator schedule spreadsheet.
Additional information	27/01/2022	Further clarification on Schedule 5 Notice response regarding: secondary containment, revised emission points plan (final version) and addendum to generator schedule spreadsheet.
Response to Schedule 5#2 Notice dated 14/12/2021	10/02/2022	Additional information submitted outlining the measures that will be put in place to bring SQ17 generators GS6, GS7 and GS9 in addition to HV generators HV11, HV12, HV13, HV14, HV15, HV16, HV17 and HV18 in line with the TALuft 2g emissions standard and thus BAT requirements.
Additional information	15/02/2022	Revised generator schedule spreadsheet and emissions points plan, which align with each other.
Variation determined EPR/PP3003PW/V002	23/03/2022	Permit issued to Ark Data Centres Limited.

Status log of the permit		
Description	Date	Comments
Variation Application EPR/PP3003PW/V003	Duly made 17/06/2024	Application to vary the permit for an additional 16 generators.
Variation determined EPR/PP3003PW/V003	07/11/2024	Permit issued to Ark Data Centres Limited.

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

Permit number

EPR/PP3003PW

Issued to

Ark Data Centres Limited (“the operator”)

whose registered office is

**Spring Park Westwells Road
Hawthorn
Corsham
Wiltshire
SN13 9GB**

company registration number 05656968

to operate a regulated facility at

**Spring Park Data Centre
Ark Data Centres
Westwells Road
Corsham
Wiltshire
SN13 9GB**

to the extent set out in the schedules.

The notice shall take effect from 23/03/2022

Name	Date
Eleanor Blackeby	07/11/2024

Authorised on behalf of the Environment Agency

Schedule 1

Table S1.1 Activities, as referred to by condition 2.1.1, is amended to include additional MCPs and to update directly associated activities.

Table S1.2 Operating Techniques, as referred to by condition 2.3.1, is updated to reflect new drainage system and generator schedule.

Table S3.1 Point Source emissions to air, as referred to by conditions 3.1.1 and 3.5.1, is amended to reflect the additional MCPs.

Table S4.1 Reporting of monitoring data, as referred to by condition 4.2.3, is amended to reflect additional MCP requirements.

Table S4.3 Reporting forms, as referred to by conditions 4.2.2 and 4.2.3, are amended.

Schedule 7 Site plan, as referred to by condition 2.2.1, has been amended.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/PP3003PW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3003PW/V003 authorising,

Ark Data Centres Limited (“the operator”),

whose registered office is

Spring Park Westwells Road

Hawthorn

Corsham

Wiltshire

SN13 9GB

company registration number 05656968

to operate an installation at

Spring Park Data Centre

Ark Data Centres

Westwells Road

Corsham

Wiltshire

SN13 9GB

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

Name	Date
Eleanor Blackeby	07/11/2024

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.

1.5 Climate change

- 1.5.1 The operator shall review and if appropriate update, at least every 4 years, the climate change adaptation risk assessment submitted with the permit application, and shall update the written management system as appropriate.

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 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 the following activities referenced in schedule 1, table S1.1: AR1. The activities shall not operate for more than 500 hours in emergency use per annum.

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 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

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

- (a) point source emissions specified in tables S3.1, S3.2 and S3.3;
- (b) process monitoring specified in table S3.4

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 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, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

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

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

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

4.2 Reporting

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

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

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

- (b) the performance parameters set out in schedule 4 table S4.2 using the forms specified in table S4.3 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 S4.3; 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:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) 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.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	Section 1.1 A (1) (a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.	<p>Operation of standby emergency generators burning gas oil or an agreed equivalent substitute solely in order to provide electricity to the installation in the event of a failure of National Grid electricity supply.</p> <p>The standby emergency generators will comprise:</p> <ul style="list-style-type: none"> - 2 generators of 3.956 MWth - 3 generators of 3.301 MWth - 3 generators of 4.381 MWth - 10 generators of 2.717 MWth - 12 generators of 3.656 MWth - 24 generators of 5.650 MWth - 16 generators of 5.660 MWth 	<p>From receipt of raw material (gas oil or an agreed equivalent substitute) to combustion in emergency standby generators for electricity production to exhaust of products of combustion to atmosphere to generation, storage and dispatch of wastes.</p> <p>The operational hours of the installation shall not exceed the specifications set out in condition 2.3.6.</p> <p>Electricity produced at the installation by the specified combustion plant cannot be exported to the National Grid.</p> <p>Generators shall only be operated for on-site emergencies and not for elective power generation, such as Balancing Services, Demand Side Response operations including Frequency Control Demand Management (FCDM) or Triad Avoidance.</p>
Directly Associated Activity			
AR2	Storage of raw materials	Storage of raw materials including gas oil or an agreed equivalent substitute.	From receipt of raw materials to use within the installation.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/PP3003PW/A001	<p>Appendix 3 - Spring Park Data Centres: Introduction to Data Supporting IED Application EPR/DP3731YL/A001 - Appendix 3 Technical Note March 2019</p> <p>P3, P4 and Generation Plant Spring Park Flood assessment surface water drainage strategy August 2017 WIE11565</p>	Duly Made 17/04/2019

Table S1.2 Operating techniques		
Description	Parts	Date Received
	Appendix 10 Ark Spring Park Energy and Emissions Management Plan 6001-D	
Response to Schedule 5 Notice dated 16/05/2019	Responses to questions 1 - 8	28/06/2019
Additional information to discharge Improvement Condition 1	Air Quality Management Plan Spring Park Data Centre, Corsham Environmental Permit EPR/PP3003PW – Document ID 6027-D - Ref. 3650-1r1 – Dated 19 th March 2021.	01/04/2021
Additional information to discharge Improvement Conditions 2 and 3	CIRIA 737 Assessment to Satisfy IC2, Spring Park Data Centres Corsham – Document Reference WIE 16316-130-R-1-1-5-PS – Dated May 2021.	25/05/2021
Variation EPR/PP3003PW/V002	Application forms C2 and C3 and all referenced supporting information.	Duly Made 05/03/2021
Response to Schedule 5#1 Notice dated 06/09/2021	Responses to questions 1 - 11	08/11/2021
Additional information	Clarification on Schedule 5#1 questions 1, 6, 8, 9 and 10	09/12/2021
Additional information	Further clarification on Schedule 5#1 questions 8 and 10	27/01/2022
Response to Schedule 5#2 Notice dated 14/12/2021	Additional information submitted outlining the measures that will be put in place to bring SQ17 generators GS6, GS7 and G9 in addition to HV generators HV11, HV12, HV13, HV14, HV15, HV16, HV17 and HV18 in line with the TALuft 2g emissions standard and thus BAT requirements.	10/02/2022
Additional information	Revised generator schedule spreadsheet and emissions points plan, which align with each other.	15/02/2022
Variation Application EPR/PP3003PW/V003	Revised surface water drainage plan and SQ19 included in the application (Ref: WIE ZZ 90 0002 P04)	09/10/2023
Variation Application EPR/PP3003PW/V003	Revised generator schedule included in the application dated 01/03/2023	09/10/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The Operator shall produce an Air Quality Management Plan in conjunction with the Local Authority outlining response measures to be taken in the event of National Grid failure. This should include but not be limited to the following considerations:</p> <ul style="list-style-type: none"> • The response should be tailored to reflect the predicted potential impact indicated by the air dispersion modelling at individual receptors; • Specific timescales for response measures; • How local conditions during a grid failure might influence the response required, for example meteorological conditions or time of day; 	Complete 01/04/2021

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> Contingency for how the response will be carried out in the event scenario i.e. loss of power; and Timescales for continued review of the management plan. <p>The Air Quality Management Plan shall be submitted to the Environment Agency for approval.</p>	
IC2	<p>The Operator shall carry out a review of the site's tertiary containment system which serves the oil and gas oil storage tanks.</p> <p>The review shall compare the system's design, method of construction and integrity against the standards outlined in CIRIA guidance C736 – Containment Systems for the Prevention of Pollution or an equivalent industry standard. The review shall include a review of how the tertiary containment protects the site soakaways.</p> <p>A written report of the review shall be submitted to the Environment Agency for written approval which details:</p> <ul style="list-style-type: none"> The review's findings and recommendations; Proposals for the implementation of recommended improvements; and Timescales for implementation of improvements. <p>The Operator shall implement the recommended improvements to the tertiary containment system within the timescales approved by the Environment Agency.</p>	Complete 25/05/2021
IC3	<p>The Operator shall carry out a review of the use and location of site soakaways and infiltration pond and the systems and procedures in place to prevent surface waters containing gas oil or other contaminants draining to these discharges. This review shall identify any improvements required in the operation, management and protection of the soakaways and infiltration pond to ensure there is no pathway for pollutants to leave the site via these discharges.</p> <p>The Operator shall submit a report to the Environment Agency for approval that outlines the results of the review and any changes necessary to the site's soak away and infiltration pond system. Any agreed proposals shall be implemented by the operator in line with timescales agreed by the Environment Agency.</p>	Complete 25/05/2021
IC4	<p>Submit full technical specifications of the proposed Selective Catalytic Reduction (SCR) plant that will be installed on the HV generators associated with the following emission points HV11, HV12, HV13, HV14, HV15, HV16, HV17 and HV18, as defined in table S3.1 for consideration and approval by the Environment Agency. This shall include but is not limited to addressing the following points:</p> <ul style="list-style-type: none"> - Confirm secondary containment for urea and additive storage - Calibration details for the NOx sensors - There will be a requirement for additional testing of NOx during commissioning to performance standards that are either conformant MCERTs or at least to M5 guidance. 	Complete 03/08/2022

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> - How will the on-site load be balanced in the event of a power outage during start-up, taking into consideration the delay before the SCR plant will become fully effective? - Should an SCR unit fail can the load be prioritised to other engines. Described how this will work. - Discuss the impacts on the SCR plant of running the plant cold (operation below effective temperature) during maintenance testing. What measures are in place on site to address any impacts that are identified? - Confirm the length of time from start-up for the SCR units to become effective and the length of time before dosing commences. - Provide data to show what the mass emissions will be against site load from start up to effective operation of the SCR Plant. - What will be the highest emissions concentration be during start-up? - What is the emission concentration that will demonstrate that the SCR plan is working as designed? - Described what the dosing/settings of the SCR plant will be when gas oil is used and when any proposed equivalent substitute is used. State what emissions would be achieved for each fuel. <p>In addition, submit an emissions monitoring plan in order to demonstrate that the emissions from the installed SCR plant comply with the technical specifications outlined in IC4. The plan shall be submitted for consideration and approval by the Environment Agency.</p>	
IC5	Provide confirmation that commissioning of the SCR is complete and that it is operational.	Complete 24/10/24
IC6	<p>As part of the commissioning of the Selective Catalytic Reduction (SCR) plant that will be installed on the HV generators associated with the following emission points: HV11, HV12, HV13, HV14, HV15, HV16, HV17 and HV18, as defined in table S3.1, the Operator shall undertake air emission monitoring (method to be agreed in writing with the Environment Agency) of oxides of nitrogen to demonstrate compliance with the detailed technical specification approved by the Environment Agency in response to improvement condition IC4.</p> <p>The Operator shall submit a Commissioning and System Certification Report to the Environment Agency for written approval detailing: the monitoring undertaken; results obtained; confirmation of compliance with the agreed specification (as per IC4). In addition, evidence shall be provided to demonstrate that the monitoring team holds appropriate qualifications.</p>	Complete 04/10/24
IC7	The operator shall submit a monitoring plan for approval by the Environment Agency detailing their proposal for the implementation of the flue gas monitoring requirements specified in Table S3.1, in line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5). The plan shall include, but not limited to:	Complete 03/08/22

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> • Where the generators are not fitted with sampling ports, a proposal to install them within the shortest practical timeline; • Details of any relevant safety, cost and operational constraints affecting the monitoring regime, in support of any proposed deviation from the testing regime specified in table S3.1. 	
IC8	<p>The operator shall submit a monitoring plan for approval by the Environment Agency detailing their proposal for the implementation of the flue gas monitoring requirements specified in Table S3.1, in line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5). The plan shall include, but not limited to:</p> <ul style="list-style-type: none"> • Where the generators are not fitted with sampling ports, a proposal to install them within the shortest practical timeline; • Details of any relevant safety, cost and operational constraints affecting the monitoring regime, in support of any proposed deviation from the testing regime specified in table S3.1. 	<p>Within 3 months from the date of issue of the permit EPR/PP3003PW/V003</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas oil or equivalent substitute to be agreed in writing with the Environment Agency	Sulphur content 0.001% (w/w)

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Gen 01 to Gen 16 (New plant) Shown on emission point plan submitted with application 09/10/23	Standby generators exhausts	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)	Every 1500 hours of operation or once every five years (whichever comes first). [Note 1]	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)
		Carbon monoxide	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)	Every 1500 hours of operation or once every five years (whichever comes first). [Note 1]	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)
GS6–GS8 HV1–HV18 (New plant) [Shown on emissions points plan submitted with application EPR/PP3003PW /V002, on 15/02/2022]	Standby generators exhausts	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)	Every 1500 hours of operation or once every five years (whichever comes first).	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)

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
		Carbon monoxide	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)	Every 1500 hours of operation or once every five years (whichever comes first).	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)
1,2,4,5,7,8,10,11,13,14,16,17 G1,G2,G3, G5,G6,G7, G9, G10,G11,G12	Standby generators exhausts	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	-	No monitoring required	-
GS1 – GS5 HV19–HV24 (existing plant) [Shown on emissions points plan submitted with application EPR/PP3003PW /V002, on 15/02/2022]		Carbon monoxide	No limit set	-	No monitoring required	-
1,2,4,5,7,8,10,11,13,14,16,17 G1,G2,G3, G5,G6,G7, G9, G10,G11,G12 GS1 – GS8	Standby generators exhausts	Sulphur dioxide	No limit set	-	No monitoring required	-

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
HV1–HV24 [Shown on emissions points plan submitted with application EPR/PP3003PW/V002, on 15/02/2022]		Particulates	No limit set	-	No monitoring required	-
Vents	Vents associated with generator diesel storage tanks A1-A54	No parameters set.	No limit set	-	No monitoring required	-

Note 1: Unless otherwise agreed in writing with the Environment Agency as a result of approval of Improvement Condition IC8.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Discharge to Infiltration pond as shown on surface water drainage layout plan ref WIE11565 November 2018 submitted with application EPR/PP3003PW/A001	Uncontaminated site surface water from oil storage areas	Oil and grease	None visible	Spot sample	Weekly	-
Discharge to Soakaways as shown on surface water drainage layout plan ref WIE11565 November 2018 submitted with application EPR/PP3003PW/A001	Uncontaminated site surface water from oil storage areas	Oil and grease	None visible	Spot sample	Weekly	-

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
FD1 shown on site foul drainage layout WIE11565 November 2018 submitted with Application EPR/PP3003PW/A001	-	-	-	-	-	-
Connection to Westwells Road Public Sewer as shown on surface water drainage layout plan ref WIE11565 November 2018 submitted with application EPR/PP3003PW/A001	Uncontaminated site surface water from oil storage areas	Oil and grease	None visible	Spot sample	Weekly	-

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
HV11–HV18 [Shown on emissions points plan submitted with application EPR/PP3003PW/V002, on 15/02/2022]	NO _x from emissions from generators fitted with SCR plant	Continuous	Not applicable	In accordance with Appendix B submitted with the Schedule 5#2 response, received 10/02/2022.

Schedule 4 – Reporting

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	Gen 01 - 16 GS6–GS8 HV1–HV18	Every 1500 hours of operation or once every five years (whichever comes first).	Within 4 months of the issue date of the permit or the date when the engine is first put into operation, whichever is later. [Note 1]
Emissions to sewer Parameters as required by condition 3.5.1	FD1, connection to Westwells public sewer	Annually	January
Land monitoring Parameters as required by condition 3.5.1	Infiltration pond, soakaways	Every 6 months	January, June
Process monitoring Parameters as required by condition 3.5.	HV11, HV12, HV13, HV14, HV15, HV16, HV17, HV18	Annually	January

Note 1: Unless otherwise agreed in writing with the Environment Agency as a result of approval of Improvement Condition IC8.

Parameter	Frequency of assessment	Units
Diesel usage	Annually	tonnes
Generator operation for testing/maintenance	Annually	<ul style="list-style-type: none"> - total hours operation for site (hours) - total hours operation per generator (hours) - total number of runs per generator (number) - number of minutes per generator run (minutes)
Generator operation for emergency running	Within 24 hours of emergency operation commencing	<ul style="list-style-type: none"> - date and time of National Grid failure; - number of generators operating immediately after National Grid failure (number); - number of generators operating two hours after National Grid failure (number); - total duration (anticipated duration) of National Grid failure (hours)
Generator operation for emergency running	Annually	<ul style="list-style-type: none"> - total number of occurrences of operation of generators (number); - total duration of operation of generators (hours)

Table S4.3 Reporting forms		
Media/parameter	Reporting format	Date of form
Water and Land	Form Water 1 or other form as agreed in writing by the Environment Agency	07/07/2020
Sewer	Form Sewer 1 or other form as agreed in writing by the Environment Agency	07/07/2020
Other performance indicators	Form Performance 1 or other form as agreed in writing by the Environment Agency	07/07/2020
Generator operation during emergency scenario	Form Emergency Scenario or other form as agreed in writing by the Environment Agency	07/07/2020
Air	Emissions to Air 1 Reporting Form or other form as agreed in writing by the Environment Agency	08/03/2021
Process monitoring Parameters as required by condition 3.5.1	Process Monitoring Form, or other form as agreed in writing by the Environment Agency	23/03/2022

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

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

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

“emissions to land” includes emissions to groundwater.

“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 limit.

“gas oil” means: (a) any petroleum-derived liquid fuel falling within CN codes 2710 19 25, 2710 19 29, 2710 19 47, 2710 19 48, 2710 20 17 or 2710 20 19; or (b) any petroleum-derived liquid fuel of which less than 65 % by volume (including losses) distils at 250 °C and of which at least 85 % by volume (including losses) distils at 350 °C by the ASTM D86 method. Gas oil includes diesel and is defined in Article 3(19) of the MCPD

“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

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Net rated thermal input” means the rate at which fuel can be burned at the maximum continuous rating of the appliance multiplied by the net calorific value of the fuel and expressed as megawatts thermal.

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

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

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT