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Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Deeside Power (UK) Limited

**Deeside Power Station
Weighbridge Road
Deeside Industrial Park
Deeside
Flintshire
CH5 2UL**

Permit number

EPR/XP3131VK

Deeside Power Station

Permit number EPR/XP3131VK

Introductory note

This introductory note does not form a part of the permit

The installation consists of the operation of 11 natural gas-fuelled reciprocating engines for the purpose of generating electricity and supplying it to the National Grid. Each engine has a net rated thermal input capacity of 9.986MW, meaning the aggregated MW_{th} capacity of the engines is 108.856.

The 11 natural-gas fuelled engines are classed as Medium Combustion Plant (MCP) under Schedule 25A of the EP Regulations. They are also an excluded Specified Generator (SG) under Schedule 25B of the EP Regulations and form part of the Industrial Emissions Directive (IED) Chapter II installation.

The engines will operate fewer than 1500 hours per year as a five-year rolling average, with no more than 2250 hours in any one of those years. The installation will be called upon by the National Grid to supply electricity during times of peak demand or reduction in baseload supply. It will be on standby 24 hours a day, 7 days a week and every day of the year with the potential to run at any time. However, the peak times for supply to the National Grid are typically between the hours of 08:00 and 22:00.

The site also comprises two redundant Combined Cycle Gas Turbines (CCGT) that until 2018 were used for electricity generation for export to the grid. These have since been converted to synchronous compensators, which are large rotating electrical machines that help stabilise the National Grid by providing inertia and reactive power to support grid voltage and frequency. They no longer have the ability to combust natural gas and therefore the associated stacks and cooling towers have since been demolished.

The CCGTs as a permitted activity, and ancillary equipment including the heat steam recovery generators and dry low-NO_x burners, have been removed from the permit. The converted CCGTs remain in the permit as synchronous compensators, and are now listed as Directly Associated Activities (DAA).

The existing diesel-fuelled generator also remains in the permit. This generator provides back-up power to the site in the event of a National Grid power outage. The generator has a net rated thermal input of 1.305 MW and was put into operation in 2013. The total net rated thermal input of the installation is therefore 111.46 MW.

Under Schedule 25A of the EP Regulations the diesel generator is classed as an existing MCP, and an excluded SG under Schedule 25B of the EP Regulations as it does not supply electricity to the National Grid and forms part of an IED Chapter II installation. Given its thermal capacity, it will not need to comply with MCP conditions and monitoring requirements until 1st January 2030. It is therefore currently exempt from emission limit values (ELVs) and remains in the permit as a DAA.

Each of the 11 natural gas engines (MCPs) is housed within an individual fully enclosed concrete sided structure, fitted with a waste heat radiator, ventilation air inlet, ventilation air outlet and an exhaust stack and silencer. The engines are sited on impermeable concrete hardstanding.

Emission points W2a and W2b, which were previously used to discharge uncontaminated surface water from the installation, have been removed from the permit. W3, which was previously used to discharge boiler blowdown water, has also been removed from the permit.

Surface water at the site drains to an oil / water separator to remove oil and grease before the clean, uncontaminated surface water is discharged from the installation to the River Dee via the existing emission point W1. This emission point was used previously to return abstracted cooling water back to the River Dee, and was subject to associated monitoring and reporting requirements. Given that the CCGT process no longer takes place at the installation, the monitoring and reporting requirements for this emission point have been removed from the permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/LP3737SW/A001	Duly made 21/03/06	
Additional information received (Schedule 4)		Response received 30/11/2006
Permit determined EPR/LP3737SW	22/12/06	
Application EPR/VP3539XK/T001 (full transfer of permit EPR/VP3539XK)	07/12/07	Application to transfer the permit to Deeside Power Limited
Transfer determined EPR/VP3539XK	09/04/08	Full transfer of permit complete
Variation determined EPR/VP3539XK/V002	11/03/13	Natural Resources Wales initiated variation to incorporate Eel Regulation improvement condition
Application EPR/XP3131VK/T001 (full transfer of permit EPR/VP3539XK)	Duly made 22/05/14	Application to transfer the permit in full to Deeside Power (UK) Limited
Transfer determined EPR/XP3131VK	12/06/14	Full transfer of permit complete

Status log of the permit

Description	Date	Comments
Regulation 60 Notice sent to the Operator	14/11/14	Issue of a Notice under Regulation 60(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit under IED to implement the special provisions for LCP under Chapter III, introducing new Emission Limit Values (ELVs) applicable to LCP, referred to in Article 20(2) and set out in Annex V. The permit is also updated to modern conditions.
Regulation 60 Notice response	30/03/15	Response received from the Operator.
Additional information received	22/06/15	Response to request for further information (RFI) dated 11/06/15.
Additional information received	18/05/15, 16/06/15 and 26/08/15	Additional information received from the Operator.
Variation determined EPR/XP3131VK/V002	22/15/15	Varied and consolidated permit issued in modern condition format. Variation effective from 01/01/16.
Application PAN-028461 (EPR/XP3131VK/V003)	Duly made 21/02/2025	Application to remove the CCGT combustion activity and add 11 natural gas-fired engines for the purpose of generation of electricity.
Additional information requested	21/03/2025	Revised OPRA spreadsheet, Ecology Report, additional assessment of impact of air emissions on habitats, assessment of risk from noise
Additional information received	31/03/2025	Noise impact assessment, OPRA spreadsheet.
Additional information received	07/04/2025	Air Quality Impact Assessment – version 2.
Additional information received	22/04/2025	Ecology Impact Assessment.
Additional information requested	16/01/2026	Further habitats assessment, habitats in combination impact assessment, operational hours and MCPD Annex I information, Climate Change Risk Assessment, Energy Efficiency (CHP readiness) assessment, containment risk assessment, EMS Accident Management Plan, Fire Risk Assessment

Status log of the permit		
Description	Date	Comments
Additional information received	06/02/2026	MCPD Annex I information, Accident Impact Assessment, Climate Change Adaptation Impact Assessment, Fire Risk Assessment.
Additional information received	24/02/2026	Request to change annual operating hours.
Additional information received	27/02/2026	Habitats In Combination Impact Assessment.
Additional information received	10/03/2026	Habitats In Combination Impact Assessment – version 2.
Additional information received	25/03/2026	Habitats In Combination Impact Assessment – version 3.
Variation PAN-028461 determined	09/07/2026	Permit issued to Deeside Power (UK) Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/XP3131VK

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/XP3131VK/V003 authorising

Deeside Power (UK) Limited ("the operator"),

whose registered office is

Saltend Power Station
Saltend Chemicals Park
Hedon Road
Hull
East Riding of Yorkshire
England
HU12 8GA

company registration number **08887001**

to operate an installation at

Deeside Power Station
Weighbridge Road
Deeside Industrial Park
Deeside
Flintshire
CH5 2UL

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

Signed

Date

<i>Emmer Litt</i>	<i>09/07/2026</i>
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Authorised on behalf of Natural Resources Wales

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 red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1
 - (a) 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 S1.2a, unless otherwise agreed in writing by Natural Resources Wales.
 - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2a and S1.2b 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 Natural Resources Wales.
- 2.3.2 The activities shall be operated using the techniques and in the manner described in schedule 1, table S1.2a and S1.2b.
- 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.

2.4 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 Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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 Noise and vibration

- 3.3.1 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 Natural Resources Wales, 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.
- 3.3.2 The operator shall:

- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.4 Monitoring

- 3.4.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1 and S3.2.
- 3.4.2 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.
- 3.4.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.4.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.4.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 unless otherwise agreed in writing by Natural Resources Wales.
- 3.4.5. Monitoring shall not take place during periods of start up or shut down
- 3.4.6 The operator shall maintain records of all monitoring including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, test and surveys and any assessment or evaluation made on the basis of such data.
- 3.4.7 The first monitoring measurements shall be carried out
 - (a) For new MCP within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.

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 Natural Resources Wales, 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 Natural Resources Wales.
- 4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP.
- 4.1.4 The operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
 - (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) in the event 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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.
- 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) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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	Schedule 1 Part 2 Section 1.1 Part A(1) (a) : Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts Consisting of individual Schedule 25A: Medium Combustion Plant Combustion of natural gas in 11 spark ignition engines for the purpose of electricity generation with a total thermal input of 109 MW	11 engines (new MCP) (A9 – A19) comprising: • 11 x 9.9 MW_{th}	From receipt of raw materials to combustion of fuel and release of exhaust gases to atmosphere. No more than 1500 operating hours per engine per year, as a five-year rolling average, with a maximum of 2250 hours per year in any one of those five years.
Directly Associated Activity			
AR2	Stand-by emergency diesel generator	1.05 MW _{th} diesel-fired generator	From receipt of raw materials to combustion of fuel and release of exhaust gases to atmosphere. To be used only in the case of a power outage on site, or for the purpose of testing.
AR3	Surface water drainage		Handling and storage of site drainage until discharge to the site surface water system
AR4	Waste management	Storage of waste oil in a 10,000l tank	Waste generation and handling - from generation of waste to despatch from the installation
AR5	Storage and handling of raw materials and fuel	Storage of clean oil in a 10,000l tank. Storage of antifreeze in an 2,000l IBC Storage of diesel in one 1,000l tank and one 4,000l tank.	From receipt of raw materials to handling, storage and use to despatch from the installation

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR6	Electricity transformers and 400kV banking compound		From generator to the connection to the National Grid

Table S1.2a Operating techniques

Description	Parts	Date Received
Application	The response to sections 2.1 and 2.2 in the Application as well as all other sections of the application.	21/03/06
Response to Schedule 4 Notice Request issued 13/11/06	Response to questions 1 (release points and emission limits), 4 (MCERTS), 6 (fugitive emissions), 7 (Fingerpost Gutter emissions to surface water), 14 (two-shifting) and 16 (BAT justification and review).	30/11/06
Transfer Application	Part A, D and F.	07/12/07
Transfer Letter	"Transfer of ownership of Deeside Power Station" dated 06/12/07	07/12/07
Response to regulation 60(1) Notice – request for information dated 14/11/14	Compliance route and operating techniques identified in response to questions 2 (LCP compliance route), 3 (TNP evidence of notification), 4 (LCP configuration), 5 (LCP net rated thermal input) and 6 (MSUL/MSDL) and 9 (ELVs).	30/03/15
Receipt of additional information to the regulation 60(1) Notice requested by letter dated 11/06/15 and email dated 26/08/15.	Further information received in response to questions 5 (LCP net rated thermal input), 6 (MSUL/MSDL) and 9 (ELVs).	22/06/15 and 26/08/15
Application	Documents 'Environmental Risk Assessment EPR/XP3131VK CRM.343.005.PE.R.005', 'Best Available Techniques and Operational Techniques and Monitoring Plan EPR/XP3131VK CRM.343.005.PE.R.006'.	21/02/25
Response to Schedule 5 Notice issued 21/03/26	Documents 'EMERGENCY PLANS IN THE EVENT OF AN INCIDENT AT DEESIDE POWER STATION', 'FIRE RISK ASSESSMENT Document Ref : C5682-TD-005 Rev :PA'.	06/02/26

Table S1.2b Operating techniques for Medium Combustion Plant as detailed in Schedule 8

Description
Each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this
The operator must keep periods of start-up and shut-down of each MCP as short as possible
There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	A written report shall be submitted to the Environment Agency reviewing CEMS monitoring data for oxides of nitrogen (NO and NO ₂ expressed as NO ₂) and carbon monoxide (CO) from each of the two gas turbines based on the past 3 years monitoring data. The review shall establish emission limit values achievable by the use of best available techniques (BAT). The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the procedure.	Completed
IC2	A written report shall be submitted to the Environment Agency, reviewing the high and low flow options for discharges to water for all parameters from W1, based on the past 3 years monitoring data. The review shall establish emission limit values achievable by the use of BAT. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the procedure.	Completed
IC3	A written plan shall be submitted to the Environment Agency for approval detailing the results of an assessment including measures to be taken if the Finger Post Gutter emission points to surface water were to be isolated and re-routed to the main emission to water discharge point (W1). The plan shall include but not be limited to a timetable and justification for re-routing the discharge points to ensure all environmental aspects in the Combustion Sector Technical Guidance Note (TGN) are considered as well as highlighting improvements to be made where appropriate. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency.	Completed
IC4	A written plan shall be submitted to the Environment Agency for approval reviewing and updating the accident management procedures to encompass all relevant measures as appropriate. This shall also include a flood protection risk assessment for the site. The procedure shall include but not be limited to, a timetable for achieving the improvements to comply with the requirements of the Combustion Sector TGN where appropriate. The notification requirements of condition 2.4.2 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
IC5	A written, reviewed and updated copy of the site noise management plan that forms part of the ISO 14001 environment management system, detailing the measures to be used to control emissions of noise shall be submitted to the Environment Agency for approval. This shall comply with Horizontal Guidance note H3. Where appropriate the reviewed, updated version of the plan shall include but not be limited to, a timetable for achieving the improvements to comply with the requirements of the guidance. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The updated procedure shall be implemented by the operator from the date of approval in writing by the Environment Agency.	Completed

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC6	A written plan shall be submitted to the Environment Agency for approval detailing the measures to be taken so that monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The plan shall include but not be limited to, a timetable for achieving this standard for any elements that are not MCERTS certified. The notification requirements of condition 2.4.2 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
IC7	A written waste management plan shall be submitted to the Environment Agency for approval detailing the results of an assessment to identify the best environmental options for waste recovery or disposal, waste minimisation, waste management including handling, storage and waste retention times to comply with the requirements of the Combustion Sector TGN. The plan shall include a timetable to implement any proposed changes as appropriate and shall include a clause to be reviewed every 4 years. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The plan shall be implemented by the Operator from the date of approval by the Environment Agency.	Completed
IC8	The Operator shall undertake a written review of the best available techniques (BAT) listed within the Combustion Sector TGN IPPC S1.01 Section 2 for the emissions of oxides of nitrogen. The review shall include, but not be limited to, all of the relevant techniques listed within the TGN, the reduction in the level of pollutants (for each option) and the costs of achieving the reduction (for each option). The review shall build upon the information provided in the Schedule 4 response. The report shall include a timetable to implement any proposed changes as appropriate. The Operator shall implement the proposals as agreed in writing with the Environment Agency.	Completed
IC9	A written plan shall be submitted to the Environment Agency for approval detailing the results of a survey to determine the integrity, adequacy and suitability of existing hard-standing, kerbing and secondary containment for above and below ground structures for raw material, chemical and oil as well as waste storage areas and the measures to comply with the requirements of the Combustion Sector TGN. Where appropriate the plan shall contain dates for the implementation of individual measures. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The plan shall be implemented by the operator from the date of approval by the Environment Agency.	Completed

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC10	The Operator shall undertake a review of the copper identified and monitored for in the purge discharge to the Dee Estuary over the past 4 years. The review shall include all potential sources of copper on site. Where appropriate, the report shall contain a timetable for the implementation of individual measures. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The plan shall be implemented by the operator from the date of approval by the Environment Agency.	Completed
IC11	A written water efficiency plan shall be submitted to the Environment Agency for approval detailing the results of an assessment to identify the water efficiency priorities across the site. The plan shall include but not be limited to a timetable to implement any proposed changes as appropriate. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The plan shall be implemented by the Operator from the date of approval by the Environment Agency.	Completed
IC12	The Operator shall undertake a review of the existing screening measures at the intakes and outfalls which provide and discharge water to and from the Installation. The review shall be undertaken with reference to the Eels (England and Wales) Regulations 2009 (SI 2009/3344) and the Environment Agency "Safe Passage of Eel" Regulatory Position Statement version 1 dated July 2012. The Operator shall submit details of the arrangement suitable to meet the requirements for the safe passage of eels [of the Eels (England and Wales) Regulations 2009 (SI 2009/3344)] by either:- • Providing a written proposal for the installation of an eel screen. • Providing a written proposal to the modification of existing screening arrangements. • Providing a written response with an explanation and description of how the existing screening arrangements can be regarded to meet the requirements for the safe passage of eels [of SI 2009/3344] either without change or with mitigation measures. • Providing a written response setting out a case for an exemption In all cases, the proposal shall be submitted in writing for the approval of the Environment Agency. Where appropriate, each proposal shall contain an assessment of alternative options considered including impacts on other fish species and an explanation of why the proposed option has been chosen. Where installation of eel screen; modification of existing arrangements; or mitigation measures are proposed, the submission shall contain relevant timescales for installation in accordance with the Safe Passage of Eel Regulatory Position Statement version 1 dated July 2012. The proposals shall be implemented in accordance with the Environment Agency's written approval.	Completed

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC13	Following successful commissioning and establishment of routine steady operation, the Operator shall undertake a BS 4142:2014+A1:2019 noise impact assessment following guidance set out in Noise and Vibration Management: Environmental Permits and Method implementation document (MID) for BS 4142, to demonstrate that impacts do not exceed those specified in the Noise Impact Assessment submitted with the application dated 31/03/2025.	No more than 3 months from the date of completion of engine commissioning unless otherwise agreed in writing with NRW
IC14	The operator shall update its existing Environment Management System to incorporate all the activities now covered by this permit in accordance with BAT 1 of the BAT Conclusions for Large Combustion Plant, under Directive 2010/75/EU of the European Parliament and of the Council.	26/10/26
IC15	Prior to the operation of the 4000l diesel tank referred to in activity reference AR5 in Table S1.1, the operator shall submit for written approval by Natural Resources Wales a report that demonstrates that the storage of diesel (for the purposes of fuelling the diesel back-up generator) is sufficiently protective of the environment. The report shall follow guidelines stipulated in CIRIA guidance 'Containment systems for the prevention of pollution (C736) Secondary, tertiary and other measures for industrial and commercial premises'. The 4000l diesel tank shall not be put into operation until the report is approved by Natural Resources Wales.	At least one month prior to the date of commencement of operation of the 4000l diesel tank referred to in activity reference AR5 in Table S1.1
IC16	The operator shall submit for approval in writing by Natural Resources Wales a report that verifies that the containment measures described in response to Improvement Condition IC15 have been installed and verified. The 4000l diesel tank shall not be put into operation until the report is approved by Natural Resources Wales.	At least one month prior to the date of commencement of operation of the 4000l diesel tank referred to in activity reference AR5 in Table S1.1

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	Supplied from the National Transmission System
Diesel	Less than 0.1% sulphur content by weight
Mineral lube oil	-

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
A9 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A10 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A11 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A12 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A13 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A14 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058

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
A15 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A16 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A17 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A18 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A19 [Point A9 on site plan reproduced in Schedule 7]	Generator exhaust (new MCP)	Oxides of nitrogen	95 mg/m ³	Periodic	Annually	MCERTS BS EN 14792
	9.9MW _{th} Jenbacher J624	Carbon monoxide	No limit set	Periodic	Annually	MCERTS BS EN 15058
A3 [Point A3 on site plan reproduced in Schedule 7]	Generator exhaust	-	No limit set	-	-	-

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
W1 [Point W1 on site plan reproduced in Schedule 7] to the River Dee	Uncontaminated site surface water including rainwater	Oil and grease	No visible oil and grease	Spot	Daily	As agreed in writing with Natural Resources Wales

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.	A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A3	Within 4 months of the date of issue of the variation or when the MCP is first put into operation, which is later, then every year thereafter	1 January

Table S4.2 Annual production/treatment

Parameter	Unit
Number of hours A9 is operational	Hours
Number of hours A10 is operational	Hours
Number of hours A11 is operational	Hours
Number of hours A12 is operational	Hours
Number of hours A13 is operational	Hours
Number of hours A14 is operational	Hours
Number of hours A15 is operational	Hours
Number of hours A16 is operational	Hours
Number of hours A17 is operational	Hours
Number of hours A18 is operational	Hours
Number of hours A19 is operational	Hours

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

Permit Number	EPR/XP3131VK
Name of operator	Deeside Power (UK) Limited
Location of Facility	Deeside Power Station, Weighbridge Road, Deeside Industrial Park, Deeside, Flintshire, CH5 2UL
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment

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 permit condition

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit

Parameter	Notification period

(c) In the event 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:

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.

“authorised officer” means any person authorised by Natural Resources Wales 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.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

“first put into operation” means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

In relation to MCP, *“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

“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 MCP” means an MCP first put into operation on or after 20/12/2018.

In relation to MCP, *“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.

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

“specified generator” has the meaning given in paragraph 2(1) of Schedule 25B of The EP Regulations

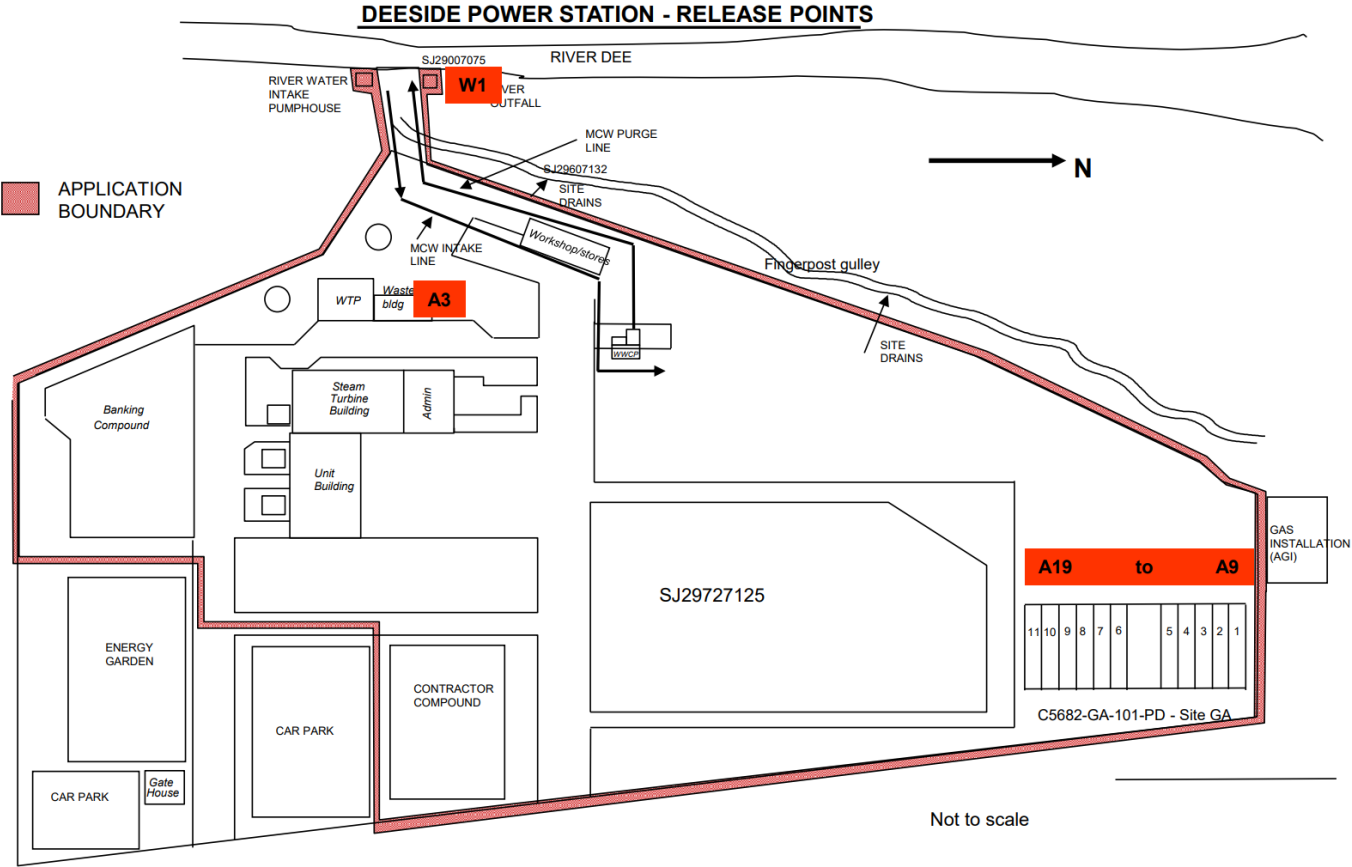
“year” means calendar year ending 31 December.

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:

- (a) 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 15% for engines; and/or
- (b) 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 plan



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Schedule 8 – Annex I of MCPD

1. Rated thermal input (MW) of the medium combustion plant.	The rated thermal input of each natural gas engine is: A9: 9.9 MW_{th} A10: 9.9 MW_{th} A11: 9.9 MW_{th} A12: 9.9 MW_{th} A13: 9.9 MW_{th} A14: 9.9 MW_{th} A15: 9.9 MW_{th} A16: 9.9 MW_{th} A17: 9.9 MW_{th} A18: 9.9 MW_{th} A19: 9.9 MW_{th} Total aggregated thermal input is 109MW.
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Other engine
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Natural gas (100%)
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	26/10/26
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code).	D35.1.1
6. Expected number of annual operating hours of the medium combustion plant and average load in use.	<1500 hours per year as a five-year rolling average, with no more than 2250 hours in any one of those years. 100% (or ~17% of the annual load)
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	N/A
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	Registered office: Saltend Power Station Saltend Chemicals Park Hedon Road Hull East Riding of Yorkshire England HU12 8GA The permitted facility is located at: Deeside Power Station Weighbridge Road Deeside Industrial Park Deeside Flintshire CH5 2UL

END OF PERMIT.