

# Permit with introductory note

## The Environmental Permitting (England & Wales) Regulations 2016

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NNB Generation Company (SZC) Limited

Sizewell C Combustion Plant

Sizewell

IP16 4UK

### **Permit number**

EPR/MP3731AC

# Sizewell C Combustion Plant

## Permit number EPR/MP3731AC

### Introductory note

#### This introductory note does not form a part of the permit

The main features of the permit are as follows.

Sizewell C Combustion Plant is located in a coastal area adjacent to the existing Sizewell B power station at National Grid Reference TM 47270 64145. The surrounding land use is a mixture of industrial and agricultural. The proposed combustion plant is located approximately 3 km north-east of the town of Leiston and 1 km north of the village of Sizewell.

The installation consists of:

- Eight 23.1MW<sub>th</sub> essential diesel generators (EDGs)
- Four 10.53MW<sub>th</sub> ultimate diesel generators (UDGs)
- Associated fuel storage tanks and interconnecting pipework

All of these will be housed within purpose built concrete buildings each containing two EDGs and one UDG.

The installation has an aggregated thermal input of 227 MW. It consists of the following scheduled activity under the Environmental Permitting (England and Wales) Regulations 2016:

- Section 1.1 Part A1(a) - Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts.

The diesel generators are safety classified standby plants and will only be operated in the event of a loss of off-site power (LOOP), for maintenance purposes and during periodic testing.

The main emissions are to air via exhaust stacks of approximately 27.2 metres in height and will consist of combustion gases containing oxides of sulphur, nitrogen and carbon and particulates.

The installation is located on the Suffolk Heritage Coast within the Suffolk Coast and Heaths Area of Outstanding Natural Beauty. The Sizewell Marshes are located adjacent to the west and northwest of the installation. Leiston Beck is located adjacent to the west of the installation, which then joins the Minsmere, approximately 2km north. Nearest human receptors are in the village of Sizewell 1km away.

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/MP3731AC/A001	Duly made 23/06/2020	Application for Chapter II >50MW combustion plant.
Additional information received	20/10/2020	Submission of Noise Modelling Files and additional information in relation to noise sources, site buildings and receptors. Submission of Air Quality Modelling Files, LOOP study document and additional information in relation to emission concentrations, source term and emergency scenario.
Additional information received	26/11/2020	Submission of revised Air Quality Modelling Files.
Additional information received	14/06/2021	Schedule 5 Notice Response - submission of revised Site Condition Report.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Additional information received	22/06/2021	Schedule 5 Notice Response - submission of further Air Quality Assessment, Air Quality Management Plan and BAT & Cost Benefit Assessment.
Additional information received	23/06/2021	Schedule 5 Notice Response - resubmission of BAT & Cost Benefit Assessment.
Additional information received	24/03/2022	Submission of further information on commissioning hours and fuel oil sulphur content.
Additional information received	12/12/2022	Submission of justification for not including battery storage in BAT review.
Permit determined EPR/MP3731AC (Billing ref. MP3731AC)	23/03/2023	Permit issued to NNB Generation Company (SZC) Limited.

<b>Other Part A installation permits relating to this installation</b>		
<b>Operator</b>	<b>Permit number</b>	<b>Date of issue</b>
NNB Generation Company (SZC) Limited	EPR/HB3091DJ Radioactive Substances Activity	23/03/2023
NNB Generation Company (SZC) Limited	EPR/CB3997AD Water Discharge Activity	23/03/2023

End of introductory note

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/MP3731AC**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**NNB Generation Company (SZC) Limited** (“the operator”),

whose registered office is

**90 Whitfield Street**

**London**

**W1T 4EZ**

company registration number 09284825

to operate an installation at

**Sizewell C Combustion Plant**

**Sizewell**

**IP16 4UK**

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

<b>Name</b>	<b>Date</b>
<b>Claire Roberts</b>	<b>23/03/2023</b>

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

### **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1: AR1 the activities shall not operate for more than 500 hours per year.

### **2.4 Improvement programme**

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

## **2.5 Pre-operational conditions**

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

## **3 Emissions and monitoring**

### **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 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.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1: AR1 the first monitoring measurements shall be carried out within four months of the issue date of the permit or of the date when the MCP is first put into operation, whichever is later.

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

4.3.4 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.

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

4.3.6 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

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
AR1	S1.1 A1 (a): Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more	<p>Operation of 12 emergency standby generators with a total thermal input of approximately 227 MW.</p> <p>The generators will burn diesel solely for the purpose of providing electricity to the Sizewell C EPRs in the event of a loss of off-site power (LOOP), total loss of auxiliary power (TLAP) routine and maintenance testing, and commissioning.</p> <p>8 x 23.1 MWth EDGs (New MCP) 4 x 10.53 MWth UDSs (New MCP)</p>	<p>From receipt of raw materials and generation of electricity to despatch of waste.</p> <p>Electricity produced at the installation can only be exported to the National Grid when the emergency generators are operated for routine and maintenance testing and commissioning purposes. Elective operation of the emergency generators to provide balancing services or demand side response services is not permitted.</p> <p>The operational hours of the installation shall not exceed the specifications set out in condition 2.3.5.</p>
<b>Directly Associated Activity</b>			
AR2	Storage of raw materials	From receipt of raw materials to use within the facility.	
AR3	Surface water drainage	Input to site drainage system until discharge to surface water drain. Drainage system covering fuel storage and refuelling bays drains via oil interceptor.	

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/MP3731AC/A001	<p>Sections 2.1, 2.2, 3.1.2 - 3.1.8, 3.2, 3.3, 3.4.3, 3.4.4 of the application document Combustion Activity Submission Sizewell C ref. 100207658 Rev 02 provided in response to section 3a – technical standards, Part B3 of the application form</p> <p>Air Quality parameters – Table 3-1: Emission inventory of Sizewell C Combustion Activity Impact Assessment for Air Emissions, Doc. Ref. 100207663 Rev 01, Jan 2020</p>	Duly Made 23/06/2020
Response to Schedule 5 Notice dated 21/05/2021	<p>Response to question 2 – Table 4.1 of Air Quality Assessment, dated 21 June 2021</p> <p>Response to question 3 - Air Quality Management Plan Doc. Ref. 100901274 Rev 01, dated 22 June 2021</p>	22/06/2021
	Response to question 1 - BAT & Cost Benefit Assessment, dated 23 June 2021	23/06/2021

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	The operator shall submit a written report to the Environment Agency on the implementation of its Environmental Management System and the progress made in the accreditation of the system by an external body or if appropriate submit a schedule by which the EMS will be subject to accreditation.	Within 12 months of the date on which the generators are first operated on site
IC2	The operator shall submit a written Noise report to the Environment Agency for approval. The report shall include a noise survey carried out when the generators are operational. As a minimum, two separate monitoring campaigns shall be completed, and the timings of the monitoring shall represent a worst-case scenario. This is to verify the acoustic data used in the Noise Assessment submitted with the application. If the survey shows significant adverse impacts at sensitive receptors, the report shall include a plan to mitigate noise emissions and impacts further. The plan must contain dates for the implementation of individual measures. The operator shall implement the plan as approved, and from the date stipulated by the Environment Agency.	Within 6 months of the date on which the generators are first operated on site
IC3	The operator shall submit a written report to the Environment Agency on the commissioning of the installation. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the application. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.	Within 4 months of the completion of commissioning of activity AR1 in Table S1.1
IC4	During commissioning, the operator shall carry out tests to assess whether the air emissions monitoring locations meet the requirements of BS EN 15259 and supporting Method Implementation Document (MID). A written report shall be submitted for approval setting out the results and conclusions of the assessment including where necessary proposals for improvements to meet the requirements. Where notified in writing by the Environment Agency that the requirements are not met, the operator shall submit proposals or further proposals for rectifying this in accordance with the timescale in the notification. The proposals shall be implemented in accordance with the Environment Agency's written approval.	Within 3 months of the completion of commissioning of activity AR1 in Table S1.1

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
PO1	At least three months prior to the commencement of commissioning, the operator shall send a summary of the site Environment Management System (EMS) to the Environment Agency and make available for inspection all documents and procedures which form part of the EMS. The EMS shall be developed in line with the requirements set out in line with web guide 'Develop a Management System: environmental permits'. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit.
PO2	At least six months prior to the commencement of commissioning, the operator shall submit a written report to the Environment Agency for approval on the baseline conditions of soil and groundwater at the installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the Industrial Emissions Directive (IED). The report shall contain information, supplementary to that already provided in application

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
	Site Condition Report, needed to meet the information requirements of Article 22(2) of the IED.
PO3	At least three months prior to the commencement of commissioning, the operator shall submit a written report to the Environment Agency for approval that includes a detailed site drainage plan and the specific design detail of the containment infrastructure at the part of the site relating to this permit, including all sub-surface structures and equipment. The site drainage arrangements shall be designed to account for potential flooding of the site. The site drainage plan shall clearly show the location of the connection manhole for the uncontaminated surface water from the roofs on each diesel building as referenced in Table S3.2. The report shall also include an inspection and maintenance programme for the containment infrastructure and equipment at the site.
PO4	At least six months prior to the commencement of commissioning, the operator shall review and update the Air Quality Management Plan Doc. Ref. 100901274 Revision 01, dated 22 June 2021 in a view of outlining any additional measures to minimise potential impact of emissions to air from different operating scenarios, and submit it to the Environment Agency for approval. This shall consider but not be limited to the following factors: <ul style="list-style-type: none"> <li>• The timings of the commissioning simulated loss of off-site power event testing and routine testing.</li> <li>• Even distribution of the testing hours between days during the commissioning phase and routine testing.</li> <li>• Avoidance of coinciding the routine testing of unit 1 with a simulated loss of off-site power event of unit 2 during the commissioning phase.</li> <li>• A frequency of the maintenance outage.</li> <li>• A maximum number of hours of routine testing in one day.</li> <li>• Review of use of ultra-low sulphur gas oil (below 0.001% w/w sulphur)</li> </ul>
PO5	Prior to installing any generators, or at least 5 years prior to the commencement of commissioning, the operator shall carry out a further review of the availability of any suitable generators that achieve better environmental standards than proposed in the application. This should include a review of the feasibility of fitting selective catalytic reduction to the generators. Upon completion of the review, the operator shall submit a written report to the Environment Agency for approval outlining the conclusions of the review.

## Schedule 2 – Raw materials and fuels

<b>Table S2.1 Raw materials and fuels</b>	
<b>Raw materials and fuel description</b>	<b>Specification</b>
Sulphur content in gas oil fuel	Less than 0.1%

## Schedule 3 – Emissions and monitoring

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12 as shown in Schedule 7	Diesel generator exhausts EDGs 8 x 23.1MWth UDGs 4 x 10.53 MWth	Oxides of Nitrogen (NO and NO <sup>2</sup> expressed as NO <sup>2</sup> )	No limit set	Periodic over the sampling period	Annually	BS EN 14792
		Carbon monoxide	No limit set	Periodic over the sampling period	Annually	BS EN 15058
		Particulates	No limit set	Periodic over the sampling period	Annually	BS EN 13284-1
Vents associated with bulk diesel storage tanks	Vents from storage tanks	No parameters set	No limit set	-	-	-

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Connection manhole on each diesel building [Note 1]	Uncontaminated surface water from the roofs	-	-	-	-	-

Note 1: Location as agreed under pre-operational condition PO3.

## Schedule 4 – Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.5.1.	A1 to A12	Annually	Within 4 months of the issue date of the permit or the date when the generator is first put into operation, whichever is later.

<b>Table S4.2 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Gas oil usage	Annually	Tonnes
Generator operation during commissioning	Report to be submitted annually	Total hours for the site (hours) Total hours per generator (hours) Total number of runs per generator (quantity and dates) Number of minutes per run (minutes)
Generator operation for testing and maintenance	Report to be submitted annually	Total hours for the site (hours) Total hours per generator (hours) Total number of runs per generator (quantity and dates) Number of minutes per run (minutes)
Generator operation during emergency scenario	Within 24 hours if operation commences	Date and time of loss of off-site power (LOOP) Number of generators operating immediately after the failure Number of generators operating two hours after failure Anticipated duration of the supply failure (hours)
Generator operation during emergency scenario	Annually	Total number of runs (quantity), duration of runs (hours)



<b>Table S4.2 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Electricity exported	Report to be submitted annually	MWh

<b>Table S4.3 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Emissions to Air Reporting Form or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance indicators	Form 'performance 1' or other form as agreed in writing by the Environment Agency	As agreed with the Environment Agency
Generator operation during emergency scenario	Form 'emergency scenario' or other form as agreed in writing by the Environment Agency	As agreed with the Environment Agency

# 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	

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

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

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

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

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

## **Part B – to be submitted as soon as practicable**

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

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

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

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

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

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

“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 or background concentration 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.

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

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

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

“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.

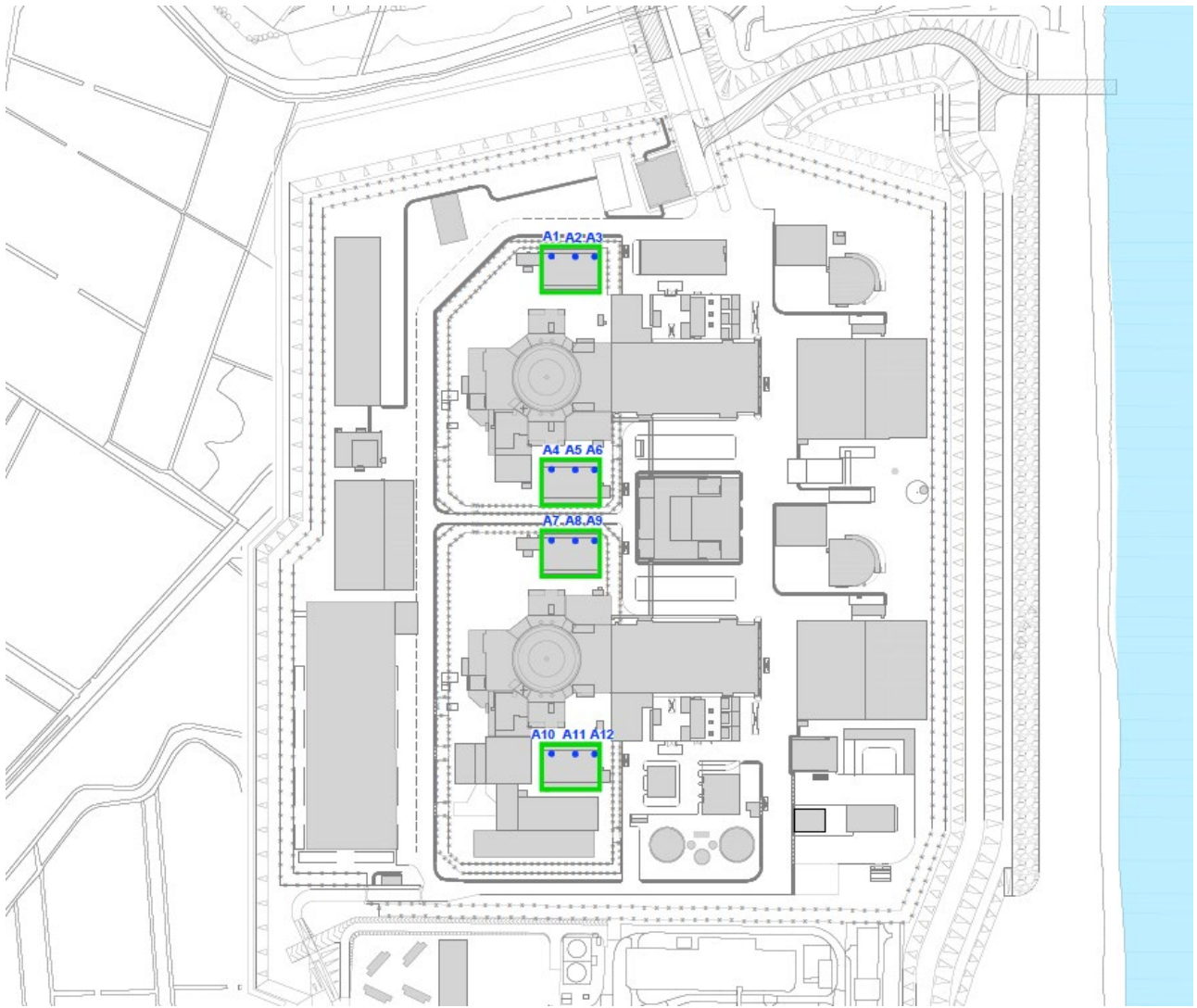
“Relevant waste operations” means a waste operation that is carried on other than at an installation or mobile plant, or a specified waste management activity. “Specified waste management activity” means one of the following activities— (a) the disposal of waste in a landfill falling within Section 5.2 of Part 2 of Schedule 1; (b) the disposal of waste falling within Section 5.3 of Part 2 of Schedule 1; (c) the recovery of waste falling within Part A(1)(c)(i), (ii), (v) or (vii) of Section 5.4 of Part 2 of Schedule 1 of the Environmental Permitting (England and Wales) Regulations 2016.

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



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END OF PERMIT

# Point Source Emissions to Air

Permit Number:

EPR/MP3731AC

Operator: NNB  
Generation  
Company (SZC)  
Limited

Air 1 – DD/MM/YYYY

Facility:

Sizewell C Combustion Plant  
Form Number:

Site	Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method	Result Date and Time [2]	Uncertainty [3]
SZC	A1	Oxides of Nitrogen(NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	No limit set	Periodic over the sampling period				
	A2							
	A3							
	A4							
	A5							
	A6							
	A7							
	A8							
	A9							
	A10							
	A11							
	A12							
	A1	Carbon Monoxide	No limit set	Periodic over the sampling period				
	A2							
	A3							
	A4							
	A5							
	A6							



SZC	A7							
	A8							
	A9							
	A10							
	A11							
	A12							
SZC	A1	Particulates	No limit set	Periodic over the sampling period				
	A2							
	A3							
	A4							
	A5							
	A6							
	A7							
	A8							
	A9							
	A10							
	A11							
	A12							

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [3] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

**Signed** .....

**Date**.....

(Authorised to sign as representative of Operator)

## Other Performance Parameters

Permit Number:

EPR/MP3731AC

Operator: NNB  
Generation

Facility:

Sizewell C Combustion  
Plant

Company (SZC)  
Limited

Performance1 / DD/MM/YYYY

Form Number:

### Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Value		Units
Diesel usage			Tonnes
Generator annual operation in emergency scenario			Number of runs
	Run	Duration of run	
	1		
	2		
Generator annual operation for testing and maintenance (Total hours for the site)			(hours)
Generator annual operation for commissioning (Total hours for the site)			(hours)
Electricity exported			MWh

Operator's comments:

Signed .....

Date.....

(Authorised to sign as representative of Operator)

**Generator emergency scenario – to be provided within 24 hours of LOOP**

**Permit Number:**                    **EPR/MP3731AC**                    **Operator:**                    **NNB Generation Company (SZC) Limited**  
**Facility:**                            **Sizewell C Combustion Plant**                    **Form Number:**                    **Emergency Scenario DD/MM/YYYY**

**Reporting of generator emergency scenario operation**

<b>Parameter</b>	
Date of failure	DD/MM/YY
Time of failure	XX:XX
Number of generators operating immediately after the failure	
Number of generators operating 2 hours after failure	
Anticipated duration of the mains supply failure	(hours)

Operator's comments:

Signed .....

Date.....

(Authorised to sign as representative of Operator)