

Mr J Spence
Environment Team Leader: HSSE
Systems and Environment
Uniper UK Ltd
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Birmingham
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Date: 13 March 2026

Dear Mr Spence

We need more information about your application

Application reference: PAN-031638

Operator: Uniper UK Limited

Facility: Connah's Quay Low Carbon Power Station, Kelsterton Road, Connah's Quay, Deeside, Flintshire, CH5 4BP.

Thank you for your application received on 30 January and 9 February 2026.

I need to ask you for some more information before I can decide whether it is duly made or not. The information required is summarised below:

Options Appraisal

Article 12(k) of the Industrial Emissions Directive (2010/75/EU) (IED) requires applications for permits to include a description of:

“the main alternatives to the proposed technology, techniques and measures studied by the applicant in outline.”

On this basis, please provide an options appraisal explaining briefly why:

- (I) a combined cycle natural gas turbine combustion plant was chosen for power generation, when compared with other technology choices;
- (II) amine absorption CO₂ scrubbing was selected rather than other technology choices; and,
- (III) why a proprietary amine option was preferred to a generic/reference technology e.g. Mono-ethanolamine.

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Croesewir gohebiaeth yn y Gymraeg a'r Saesneg
Correspondence welcomed in Welsh and English

Combined Cycle Gas Turbine (CCGT) Combustion Plant

Please confirm the total net rated thermal input for the two proposed CCGT units (gas & steam turbines) in MWth. The application states that the net electrical output is up to 1,380 MWe with CCP operational. However, the Environmental Permitting Regulations 2016 require us to consider thermal input.

Proposed Operating Regime

At present, four units of the existing Connah's Quay power station are operational. Paragraph 1.2.10 of the Air Quality Assessment report assumes that both units (trains) of the proposed power station are operating at full capacity from 2036. In the interim, paragraph 1.1 of the Application Supporting Statement explains:

“Construction of the Proposed Installation will be phased to deliver one train at a time, and as such there will be a transition period of parallel operation of the Proposed Installation and the existing CQPS.”

4.3.1 of the Application Supporting Statement continues to state:

“During the transition period to the full operation of the Proposed Installation, one train of the Proposed installation may operate in parallel with up to two units of the existing CQPS within the constraints of the existing connection agreement.”

Please can you confirm how long the parallel operating scenario described above will be in place (e.g. from “x” year to 2036) and if there are any anticipated variations to this requirement that may influence the Air Quality Modelling that has been submitted as part of the application.

Emergency Diesel Generators

Application Form B3, Appendix 8 states that there will be 5 x Emergency Generators, each with a rated input of 6.25 MWth. Please confirm if this information is correct for the purposes of the application, as section 1.3 of the application supporting document states:

“The number and thermal rating of the emergency generator(s) will be confirmed during FEED and will be classed as medium combustion plant (MCP).”

Selective Catalytic Reduction (SCR)

Please confirm if there is a waste water discharge associated with the SCR abatement process.

Air Quality Assessment – Ecological Receptors

Figure 6 “Ecological Receptor Plan” in Sharefile folder EPR Vol IV Figures and Plans does not show the location of receptors OE27 – OE 31. Please supply an updated version of this plan showing all the ecological receptors named in the Air Quality Assessment report (Volume 3).

The Air Quality Assessment report (Volume 3) paragraph 1.1.12 refers to a list of 33 x Figures (including contour plots) that supports the assessment. Please supply these figures electronically, as they cannot be located as part of the application submission.

Carbon Dioxide (CO₂) Management Plan

Please resubmit Appendix H “CO₂ Management Plan” to include Figure 2 showing the location of sensitive receptors.

Emissions to Water

A new emission point for surface water (W4) is proposed to be located adjacent to existing emission points W2 and W3. W2 and W3 are currently regulated under permit EPR/NP3037AF for the existing Connah's Quay Power Station. Given the location of W4 relative to both installation boundaries, please confirm if W4 is intended for inclusion in EPR/NP3037AF or if it forms part of this permit application (PAN-031638).

Process water from the proposed development will combine with process water from the existing power station and be discharged at emission point W1. The Application Supporting Statement confirms that no changes are required to the existing emission limits in permit EPR/NP3037AF. However, please confirm if there will be any change to the overall volume of cooling and process water discharged, under the worst case operating scenario (considering both existing and proposed power stations).

Please also confirm if the proposed power station will introduce any new pollutants into the discharge at W1 (e.g. nitrogen, ammonia, amines) as a result of the operation of the carbon capture plant.

Noise Impact Assessment

Page 26 of the Noise Impact Assessment report refers to an Appendix T. Please provide an electronic copy of this appendix.

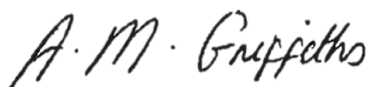
Please reply within 10 working days from the date of this letter. If we don't hear from you, we must return your application and fee. We will keep 14% of the charge to cover the cost of the assessment work done.

If you email or write to us, please quote the application reference PAN-031638 on any correspondence and send it to the relevant address below.

When we receive the missing items, we'll continue to check the details in your application. If there's enough there for us to begin the process of deciding whether or not we can grant your application, we say the application is 'duly made' and we'll let you know this by letter.

Please quote our reference if you contact us. If you have any questions, please phone me on (03000) 654358 or email anna.griffiths@naturalresourceswales.gov.uk.

Yours sincerely



Anna Griffiths
Senior Specialist Advisor – Installations and RSR Permitting Team