

Notice of request for more information

Environmental Permitting (England and Wales)
Regulations 2016

Notice requiring further information

To: Mr J A Keene
Company Secretary
RWE Generation UK plc
Windmill Hill Business Park
Whitehill Way
Swindon
SN5 6PB

Application number: EPR/RP3133LD/V014

Natural Resources Wales, in exercise of its powers under paragraph 4 of Part 1 of Schedule 5 of the above Regulations, requires you to provide the information detailed in the attached schedule. The information is required in order to determine your application for a normal variation to your environmental permit, duly made on 31st March 2017. The information requested should be sent to the following address by **28th July 2017**.

Information should be sent to:

Anna Lewis
Permitting Service
Natural Resources Wales
Cambria House
29 Newport Road
Cardiff
CF24 0TP

Name	Date
<i>A. M. Lewis</i>	28/06/2017

Anna Lewis, Principal Permitting Officer
Authorised on behalf of Natural Resources Wales

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anna.lewis@naturalresourceswales.gov.uk

Trwyddedu Gwasanaeth, Cyfoeth Naturiol Cymru, Tŷ Cambria, 29 Heol Casnewydd, Caerdydd. CF24 0TP
Permitting Service, Natural Resources Wales, Cambria House, 29 Newport Road, Cardiff. CF24 0TP

Gwefan/Website www.cyfoethnaturiolcymru.gov.uk Croesewir gohebiaeth yn y Gymraeg a'r Saesneg
www.naturalresourceswales.gov.uk Correspondence welcomed in Welsh and English

Schedule

1. BAT Options Appraisal (including Sensitivity Analysis)

The Oxides of nitrogen (NO and NO₂ expressed as NO_x) 500 mg/Nm³ monthly and 605 mg/Nm³ 95%ile of daily averages Emission Limit Values (ELVs) are minimum standards during the Transitional National Plan (TNP) and Industrial Emissions Directive (IED) Chapter II Best Available Techniques (BAT) is also required to be applied to the operation of the installation. Current conventional design bituminous coal-fired power stations can achieve BAT NO_x ELVs of 450 mg/Nm³ monthly and 550 mg/Nm³ 95%ile of daily averages using low NO_x burners and over fire air (OFA) systems or equivalent measures. This is the starting point for the BAT determination for Aberthaw Power Station when conversion to bituminous High Volatile Matter Coal (HVMC) coal-firing is complete and optimised.

With regard to the BAT options appraisal and associated sensitivity analysis provided as part of the current variation application, please expand both by providing further written justification to explain why conventional HVMC NO_x control techniques are not applicable and examine the costs of these measures (if applicable), in addition to those already considered. Furthermore, in order to align the options appraisal basis for load factor and remaining plant lifetime and ensure continuity with and improve transparency of the previous BAT option appraisals in the applications for SCR and low NO_x boiler upgrades, the options assessed will need to include SNCR and SCR.

2. BAT Options Appraisal Sensitivity Analysis

The sensitivity analysis submitted in response to the previous Schedule 5 notice (received on 13th June) is based on Unit 9 achieving releases of 500 mg/Nm³ NO_x. However, the response to item F on the previous Schedule 5 notice states:

“However, the available data and analysis presented in Figures 1 and 2 of the ASD indicate that we expect to achieve around 500 mg/Nm³ on Units 7 and 8 (with Unit 9 achieving approximately 300 – 375 mg/Nm³)”

On this basis, please provide an updated sensitivity analysis which shall consider Low NO_x Boiler (LNBo) performance on Low Volatile Matter Coal (LVMC) of 400-450 mg NO_x/Nm³ and on HVMC of 300 mg NO_x/Nm³.

End of Schedule.