

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

RWE Generation UK plc

Tilbury Power Station
Fort Road
Tilbury
Grays
Essex
RM18 8UJ

Variation application number

EPR/EP3433LZ/V008

Permit number

EPR/EP3433LZ

Tilbury Power Station

Permit number EPR/EP3433LZ

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

The requirements of the Industrial Emissions Directive (IED) 2010/75/EU are given force in England through the Environmental Permitting (England and Wales) Regulations 2010 (the EPR) (as amended).

This variation notice refers to the operation of large combustion plant (LCP), as defined by articles 28 and 29 of the Industrial Emissions Directive (IED). Environmental Permit EPR/EP3433LZ has been varied by the Environment Agency to facilitate the implementation of the special provisions for LCP given in the IED, by the 1 January 2016 (Article 82(3)). The IED makes special provisions for LCP under Chapter III.

This variation notice sets condition 2.1.2 into Environmental Permit EPR/EP3433LZ to ensure that the site can only operate in accordance with Chapter III of the Industrial Emissions Directive. The Operator, RWE Generation UK plc, must demonstrate their compliance with Chapter III of the Industrial Emissions Directive, should they wish to operate the site and must have obtained written approval from the Environment Agency before operating.

The power station has four main boilers (numbered 7-10), with a combined thermal input of appropriately 4000 MWth. Unit 7 is currently not operational, and although it has been included within the application as a unit, its emission were not included in the environmental assessments for the permit determination. As such some improvement conditions have been set in the event of the unit being recommissioned.

Each boiler is normally fuelled with pulverised coal, with fuel oil and palm oil used to start the boilers and to stabilise normal operation. Fuel oil and palm oil are kept in bunded tanks and coal in external coal stockpiles. Superheated steam from the boilers is fed to turbine/alternator sets to generate electricity for the national grid. The coal is supplied by ship and the installation includes the jetty for coal delivery, and the transfer of coal from the ships to the boilers and storage areas. The combustion gases from boilers 7&8 discharge to one stack and those from boilers 9&10 to a separate stack, with the height of both of these stacks being 171m. In addition to the main boilers, there are four open cycle gas turbines/generator sets (GT7-10), each rated at 70 MWth which are fired on gas oil and discharge to four separate stacks each 75.1 m tall.

These are used for frequency support and black start. The installation also has three auxiliary boilers(1-3) fired on gas oil, each rated at 10.5 MWth, which produce steam for use on the site. These auxiliary boilers discharge into the main stack via a separate duct within the stack and are only combined with the main discharges from Boilers 7 and 8 after the monitoring. All of the main boilers have centrifugal mechanical dust collectors followed by electrostatic precipitators, which are capable of an indicative efficiency of 99.5%. The flue gases are also conditioned by sulphur trioxide injection to improve particulate capture performance and gravimetric feeders are already installed. Dynamic classifiers are currently being installed on each of the three operational combustion units, and all of these units should be fully operational by the end of 2007.

Final dispersion of the flue gases from the main and auxiliary boilers is achieved through the two 171 metre chimneys. The monitoring of these releases to air from the main boilers is carried out in accordance with the Large Combustion Plant Directive.

The schedules specify the changes made to the original permit.

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

Status log of the permit		
Description	Date	Comments
Application EP3433LZ	Duly made 11/04/06	
Additional information received from operator correcting an error in the application, and confirming that the inventory of oil stored on	14/08/06	

Status log of the permit		
Description	Date	Comments
the site was below the COMAH threshold.		
Additional information received from the operator detailing a number of corrections and changes to the submitted PPC application.	14/08/06	
Additional information for the Operator providing an update to Appendix B1 of the application on issues relating to the site report.	15/11/06	
Report from the operator on the fitting of dynamic classifiers	19/12/06	
Permit determined	04/04/07	
Variation EP3433LZ/V002, modifying particulate matter limits, determined	06/06/08	
Variation EP3433LZ/V003, changing site boundary and pH monitoring frequency, application	Duly made 29/12/08	
Variation EP3433LZ/V003 determined	30/04/09	
Variation application EP3433LZ/V004, to burn biomass	Duly made 10/11/10	
Additional information received from the operator giving details of processed wood pellets handling systems	19/01/11	
Variation EP3433LZ/V004 determined	26/01/11	
Variation application EP3433LZ/V005	Duly made 28/11/12	Environment Agency initiated variation relating to an incident in February 2012
Variation EP3433LZ/V005 determined	29/11/12	Varied permit issued.
Variation determined EPR/EP3433LZ/V006	26/02/13	Environment Agency Initiated Variation, to incorporate Eel Regulations improvement condition.
Notified of change of company name	13/11/14	Name changed to RWE Generation UK Plc.
Variation issued EPR/EP3433LZ/V007	02/12/14	Varied permit issued to RWE Generation UK Plc.
Variation determined EPR/EP3433LZ/V008 (PAS Billing ref:LP3232RD)	21/12/15	Agency initiated variation to include condition 2.1.2 requiring the operator to provide evidence that the facility will operate in accordance with Chapter III of the Industrial Emissions Directive. Varied permit issued.

Other permits relating to this installation

Operator	Permit number	Date of issue
RWE Generation UK Plc	8/37/56/*G/0073 (Low Street Borehole licence)	19/01/00
RWE Generation UK Plc	8/37/56/*G/0084 (Environment centre pond borehole abstraction licence)	19/01/00
RWE Generation UK Plc	8/37/56/*T/0091 (CW abstraction licence)	14/09/01

End of introductory note.

Notice of variation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number

EPR/EP3433LZ

Issued to

RWE Generation UK plc (“the operator”)

whose registered office is

Windmill Hill Business Park

Whitehill Way

Swindon

Wiltshire

SN5 6PB

company registration number **03892782**

to operate a regulated facility at

Tilbury Power Station

Fort Road

Tilbury

Grays

Essex

RM18 8UJ

to the extent set out in the schedules.

The notice shall take effect from 01/01/2016.

Name	Date
J Linton	21/12/2015

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None.

Schedule 2 – conditions to be amended

None.

Schedule 3 – conditions to be added

The following conditions are added following an Environment Agency initiated variation

- 2.1.2 No activities, listed in Section 1.1 A(1)(a) of the environmental permitting regulations, authorised by this permit shall take place unless the operator has submitted a report in writing to the Environment Agency for approval, demonstrating compliance with Chapter III of the Industrial Emissions Directive, and has obtained written approval from the Environment Agency.