

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS <sup>(a)-(d),(e)</sup>

Operator: RWE Generation UK Form: IED CON1 (Utility boilers)  
 Location: Aberthaw Power Station  
 Permit/Variation Number: EPR/RP3133LD

Year: 2016 LCP: LCP 283	SO <sub>2</sub> (mg/m <sup>3</sup> )		NO <sub>x</sub> (mg/m <sup>3</sup> )		Dust (mg/m <sup>3</sup> )		Monthly	
Month	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean <sup>(f)</sup>	Fuel S %	FGD Eff <sup>(g)</sup> %
January	198.53	362.60	740.65	866.04	10.67	14.54		
February	140.36	320.46	719.88	849.04	8.68	18.18		
March	111.54	228.49	668.17	821.35	7.52	11.09		
April	114.69	223.54	627.02	805.30	6.59	8.95		
May	115.24	180.20	508.53	687.19	4.83	7.55		
June	112.06	277.11	537.52	627.33	6.44	26.74		
July	65.32	275.54	590.31	700.93	5.78	9.66		
August	102.30	200.36	533.93	771.95	5.38	10.71		
September	125.22	292.63	467.41	621.63	7.12	9.99		
October	103.81	164.75	468.80	544.37	6.83	9.93		
November	97.18	180.71	593.86	733.08	7.91	11.51		
December	100.08	205.89	528.74	620.91	6.93	8.97		
Monthly ELV/Daily ELV <sup>(d)</sup>	350.00	#N/A	1050.00	#N/A	20.00	#N/A		
Annual 95 <sup>th</sup> Percentile <sup>(f)</sup>	266.72	217.48	826.17	805.30	12.10	11.43		
Annual Percentile ELV <sup>(g)</sup>	#N/A	440.00	#N/A	1080.00	#N/A	35.00		

NOTES:

- (a) All concentration data are based on validated hourly average concentrations excluding start-up and shut-down and periods of malfunction or breakdown of abatement equipment  
 (b) Annual percentiles of hourly average concentrations are submitted with the final return (Quarter 4)  
 (c) Reference conditions. Solid fuel: 6% O<sub>2</sub> (dry) Liquid fuel: 3% O<sub>2</sub> (dry) at 273.15K, 101.325 kPa  
 (d) Required for indigenous fuel derogation only - state target removal efficiency as the ELV (if applicable)  
 (e) Leave the Daily ELV blank if this is applied as a 95<sup>th</sup> percentile ELV within the Permit  
 (f) For each pollutant, report the Annual 95<sup>th</sup> percentile of hourly averages in the first column and, if applicable, Annual 95<sup>th</sup> percentile of daily means in the second column  
 (g) For each pollutant, report Annual 95<sup>th</sup> percentile ELV for hourly averages in the first column and, if applicable, Annual 95<sup>th</sup> percentile ELV for daily means in the second column

Signed on behalf of the Operator by:

A. Bawsher

Date of return:

23 January 2017

RELEASES TO AIR

QUARTERLY RETURN

CUMULATIVE ROLLING MALFUNCTION AND BREAKDOWN HOURS (12 MONTH PERIOD)<sup>(a)</sup>



Operator: RWE Generation UK

Form:

IED BD1

Location: Aberthaw Power Station

Permit/Variation Number: EPR/RP3133LD

Year: 2016 LCP: LCP 283	SO <sub>2</sub>		NO <sub>x</sub>		Dust	
Month <sup>(b)</sup>	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)
Jan 2016	0	0	0	0	0	0
Feb 2016	0	0	0	0	0	0
Mar 2016	0	0	0	0	0	0
Apr 2016	0	0	0	0	0	0
May 2016	0	0	0	0	0	0
Jun 2016	0	0	0	0	0	0
Jul 2016	0	0	0	0	0	0
Aug 2016	0	0	0	0	0	0
Sep 2016	0	0	0	0	0	0
Oct 2016	0	0	0	0	0	0
Nov 2016	0	0	0	0	0	0
Dec 2016	0	0	0	0	0	0
Annual cap (hours)	120	120	120	120	120	120

NOTES:

- (a) Cumulative rolling malfunction and breakdown hours (12 month period) updated monthly
- (b) Insert the relevant months for the preceding 12 month period, e.g., starting with March 2016
- (c) Gas turbines with CO abatement only (columns may be deleted)

Signed on behalf of the Operator by:

*A. Jansher*

Date of return:

23 January 2017