

# RELEASES TO AIR

## QUARTERLY RETURN

### MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS <sup>(a),(b),(c)</sup>

Operator: RWE Generation UK Form: IED CON1 (Utility boilers)  
 Location: Aberthaw Power Station Version/date: V.10.9 Dec 2015  
 Permit/Variation Number: EPR/RP3133LD

Year: 2016 LCP: LCP1	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>(d)</sup> %
January	198.53	362.60	740.65	866.04	10.67	14.54	0.83	
February	140.36	320.46	719.88	849.04	8.68	18.18	0.90	
March	111.54	228.49	668.17	821.35	7.52	11.09	0.92	
April	114.69	223.54	627.02	805.30	6.59	8.95	0.89	
May	115.24	180.20	508.53	687.19	4.83	7.55	0.85	
June	112.06	277.11	537.52	627.33	6.44	26.74	0.87	
July								
August								
September								
October								
November								
December								
Monthly ELV/Daily ELV <sup>(e)</sup>	350.00	#N/A	1050.00	#N/A	20.00	#N/A		
Annual 95 <sup>th</sup> Percentile <sup>(f)</sup>	Annual Only	230.02	Annual Only	827.29	Annual Only	12.61		
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. J. J. J.*

Date of return:

12 July 2016

# 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 Version/date: V.10.9 Dec 2015  
 Permit/Variation Number: EPR/RP3133LD

Year: 2016 LCP: LCP1	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
Month 7						
Month 8						
Month 9						
Month 10						
Month 11						
Month 12						
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. Sawsher*

Date of return: 12 July 2016



Permit Number: RP3133LD Operator: RWE Generation UK plc  
 Installation: Aberthaw Power Station Form Number: Process1 / 30/11/07  
 Reporting of process monitoring for the period from ... 01/06/2016 ...to... 30/06/2016

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
A13 (unit 7 absorber inlet)	Particulate Matter (mg/m3) (maximum hourly average value)	-	Continuous	310		01 - 30/06/16	MCERT monitor
A13 (unit 7 absorber inlet)	Particulate Matter (mg/m3) (monthly average value)	-	Continuous	88.9		01 - 30/06/16	MCERT monitor
A14 (unit 8 absorber inlet)	Particulate Matter (mg/m3) (maximum hourly average value)	-	Continuous	268		01 - 30/06/16	MCERT monitor
A14 (unit 8 absorber inlet)	Particulate Matter (mg/m3) (monthly average value)	-	Continuous	93.1		01 - 30/06/16	MCERT monitor
A15 (unit 9 absorber inlet)	Particulate Matter (mg/m3) (maximum hourly average value)	-	Continuous	159		01 - 30/06/16	MCERT monitor
A15 (unit 9 absorber inlet)	Particulate Matter (mg/m3) (monthly average value)	-	Continuous	37.2		01 - 30/06/16	MCERT monitor

[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] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography. To be confirmed upon completion of permit improvement condition reference IC20.

[3] 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.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed A. Zauscher Date 18/07/2016  
 (Authorised to sign as representative of Operator)

# Reporting of deposited particulate matter for the period from 01/06/2016 to 30/06/2016

Operator: RWE npower Form: Deposition1 /30/11/07

Location: Aberthaw Version: V.6 Nov 2006

Permit/Variation Number: RP3133LD

Monitoring Point	Substance / Parameter	Guidance Value (mg/m <sup>2</sup> /day)	Result <sup>[1]</sup> (mg/m <sup>2</sup> /day)	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Accreditation/ Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
Font-y-gary	Total deposited particulate matter	80-100	53.0	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
East Aberthaw Sidings	Total deposited particulate matter	80-100	58.9	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
Rail Bend	Total deposited particulate matter	80-100	164.4	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
Quarry North	Total deposited particulate matter	80-100	267.3	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
Quarry South	Total deposited particulate matter	80-100	64.1	BS 1747-1:1969 and best practice guidelines	Continuous	-	-

[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] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed: A. J. J. J.  
(authorised to sign as representative of the Operator)

Date: 19/07/2016