

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS ^{(a),(b),(c)}

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: 2019 LCP: LCP 283	SO ₂ (mg/m ³)		NO _x (mg/m ³)		Dust (mg/m ³)		Monthly	
	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean ^(d)	Fuel S %	FGD Eff ^(e) %
January	46.84	77.05	346.23	431.76	11.66	22.09		
February	53.76	148.58	358.02	406.65	10.92	21.24		
March	#N/A	22.77	#N/A	200.55	#N/A	16.35		
April	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		
May	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		
June	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		
July	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		
August	#N/A	202.76	#N/A	369.73	#N/A	16.29		
September	#N/A	195.83	#N/A	278.84	#N/A	40.43		
October								
November								
December								
Monthly ELV/Daily ELV ^(f)	350.00	#N/A	500.00	#N/A	20.00	#N/A		
Annual 95 th Percentile ^(g)	Annual Only	195.83	Annual Only	427.19	Annual Only	22.09		
Annual Percentile ELV ^(g)	#N/A	440.00	#N/A	605.00	#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% O₂ (dry) Liquid fuel: 3% O₂ (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 95th percentile ELV within the Permit
- (f) For each pollutant, report the Annual 95th percentile of hourly averages in the first column and, if applicable, Annual 95th percentile of daily means in the second column
- (g) For each pollutant, report Annual 95th percentile ELV for hourly averages in the first column and, if applicable, Annual 95th percentile ELV for daily means in the second column

Signed on behalf of the Operator by: *R. T. Powell*

Date of return: 02 October 2019

RELEASES TO AIR

QUARTERLY RETURN

MAXIMUM 48H MEAN AND ANNUAL PERCENTILE CONCENTRATIONS ^{(a),(b),(c)}

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 Insufficient Hourly Data For Calculation

Year: 2019		NO _x (mg/m ³)	
LCP: LCP 283			
Month		Max 48h Mean	
January		415.89	
February		383.99	
March		200.55	
April		#N/A	
May		#N/A	
June		#N/A	
July		#N/A	
August		369.73	
September		278.84	
October			
November			
December			
Monthly ELV/48h ELV ^(e)			
Annual 95 th Percentile ^(f)		383.99	
Annual Percentile ELV ^(g)		550.00	

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% O₂ (dry) Liquid fuel: 3% O₂ (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 48h ELV blank if this is applied as a 95th percentile ELV within the Permit
- (f) For each pollutant, report the Annual 95th percentile of hourly averages in the first column and, if applicable, Annual 95th percentile of 48h means in the second column
- (g) For each pollutant, report Annual 95th percentile ELV for hourly averages in the first column and, if applicable, Annual 95th percentile ELV for 48h means in the second column

Signed on behalf of the Operator by: *R.T. Powell*

Date of return: 02 October 2019

FORM NAME

IED RTA1

Releases of IED Pollutants to Air**Operational Summary for the year****2019****Operator:** RWE Generation UK**Site Location:** Aberthaw Power Station**Original permit number:** EPR/RP3133LD **LCP:** LCP 283

Note: beginning 1 January 2016, a return is required for each LCP within 28 days of the end of each quarter

Emissions	SO₂ (tonnes)	NO_x (tonnes)	Dust (tonnes)
January	49.50	377.81	14.47
February	20.24	144.03	5.15
March	0.13	1.22	0.11
Total for Quarter 1	69.87	523.06	19.73
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
Total for Quarter 2	0.00	0.00	0.00
July	0.00	0.00	0.00
August	2.80	7.61	0.34
September	2.18	2.10	0.33
Total for Quarter 3	4.99	9.70	0.67
October			
November			
December			
Total for Quarter 4	0.00	0.00	0.00
Annual Total	74.86	532.77	20.39

I confirm that this data is not knowingly reported with any omissions, errors or misrepresentation. All measurement equipment used to generate the data has been appropriately calibrated and maintained regularly; this includes calibration against traceable international measurement standards where available. The data is supported by appropriate record keeping. IT is designed, documented, tested, implemented, controlled and maintained to ensure reliable, accurate and timely processing of data; data handling and calculations have been appropriate; data has been checked for false and unusual measurements. The annual report of emissions for the above participating large combustion plant has been verified in accordance with the requirements of the Transitional National Plan Regulations.

Name of the operator staff responsible for the quality of data supplied to the Register in accordance with the principles above.

R.T. Powell

Date 02/10/2019

NOTES:

1. Data must be reported in tonnes to 2 decimal places.
2. All forms must be saved in the format IED RTA1—Quarter-Inventory Year-DEFRA IED LCP Number I.e. IED RTA1-Q1-2015-XXX for upload purposes
3. No PDF documents shall be accepted
4. Upload Forms held on GOV.UK will be accepted other variants of the forms will be automatically rejected which may impact their statutory obligations to report on time

**RELEASES TO AIR
QUARTERLY RETURN**



CUMULATIVE ROLLING MALFUNCTION AND BREAKDOWN HOURS (12 MONTH PERIOD)^(a)

Operator: RWE Generation UK Form: IED BD1
 Location: Aberthaw Power Station Version/date: V.10.9 Dec 2015
 Permit/Variation Number: EPR/RP3133LD

Year: 2019 LCP: LCP 263	SO ₂		NO _x		Dust	
Month ^(b)	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)
Jan 2019	0	0	0	0	0	1
Feb 2019	0	0	0	0	0	1
Mar 2019	0	0	0	0	0	1
Apr 2019	0	0	0	0	0	1
May 2019	0	0	0	0	0	1
Jun 2019	0	0	0	0	0	1
Jul 2019	0	0	0	0	0	1
Aug 2019	0	0	0	0	0	1
Sep 2019	0	0	0	0	0	0
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: *R.T. Powell*

Date of return: 02 October 2019