

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

Permit/Variation Number: EPR/RP3133LD

Nox Q1 (Old limits)

Year: 2017 LCP: LCP 283		SO ₂ (mg/m ³)		NO _x (mg/m ³)		Dust (mg/m ³)		Monthly	
Month		Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean ^(f)	Fuel S %	FGD Eff ^(d) %
January		#N/A	#N/A	572.91	660.99	#N/A	#N/A	#N/A	
February		#N/A	#N/A	562.91	651.93	#N/A	#N/A	#N/A	
March		#N/A	#N/A	515.61	658.28	#N/A	#N/A	#N/A	
April		#N/A	#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	#N/A	
June		#N/A	#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	#N/A	
August		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
September		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
October		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
November		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
December		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
Monthly ELV/Daily ELV ^(e)		#N/A	#N/A	1050.00	#N/A	#N/A	#N/A		
Annual 95 th Percentile ^(f)		#N/A	#N/A	Annual Only	651.93	#N/A	#N/A		
Annual Percentile ELV ^(g)		#N/A	#N/A	#N/A	1080.00	#N/A	#N/A		

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. Powell

Date of return:

19 January 2018

This report is NOT certified

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

Permit/Variation Number: EPR/RP3133LD

Nox (Q2 - Q4) New Limits

Year: 2017	SO ₂ (mg/m ³)		NO _x (mg/m ³)		Dust (mg/m ³)		Monthly	
LCP: LCP 283								
Month	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean ^(h)	Fuel S %	FGD Eff % ^(d)
January	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
February	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
March	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
April	#N/A	#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	#N/A	
June	#N/A	#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	#N/A	
August	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
September	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
October	#N/A	#N/A	403.66	408.03	#N/A	#N/A	#N/A	
November	#N/A	#N/A	473.04	514.97	#N/A	#N/A	#N/A	
December	#N/A	#N/A	375.80	435.26	#N/A	#N/A	#N/A	
Monthly ELV/Daily ELV ^(e)	#N/A	#N/A	500.00	#N/A	#N/A	#N/A		
Annual 95 th Percentile ^(f)	#N/A	#N/A	545.19	504.93	#N/A	#N/A		
Annual Percentile ELV ^(g)	#N/A	#N/A	#N/A	605.00	#N/A	#N/A		

NOTES:

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- (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. Powell

Date of return:

19 January 2018

This report is NOT certified

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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

Permit/Variation Number: EPR/RP3133LD

SO₂ & Dust only Annual report

Year: 2017 LCP: LCP 283	SO ₂ (mg/m ³)		NO _x (mg/m ³)		Dust (mg/m ³)		Monthly	
Month	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean	Monthly Mean	Max Daily Mean ^(f)	Fuel S %	FGD Eff ^(d) %
January	82.46	210.56	#N/A	#N/A	7.72	16.71	#N/A	
February	65.99	115.14	#N/A	#N/A	7.96	11.20	#N/A	
March	121.42	348.19	#N/A	#N/A	8.98	17.68	#N/A	
April	#N/A	#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	#N/A	
June	#N/A	#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	#N/A	
August	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
September	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
October	143.97	179.53	#N/A	#N/A	5.86	7.10	#N/A	
November	226.04	399.46	#N/A	#N/A	9.30	15.41	#N/A	
December	195.69	284.76	#N/A	#N/A	6.79	15.27	#N/A	
Monthly ELV/Daily ELV ^(e)	350.00	#N/A	#N/A	#N/A	20.00	#N/A		
Annual 95 th Percentile ^(f)	240.17	284.76	#N/A	#N/A	14.71	14.71		
Annual Percentile ELV ^(g)	#N/A	440.00	#N/A	#N/A	#N/A	35.00		

NOTES:

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(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. Powell

Date of return:

19 January 2018

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

Permit/Variation Number: EPR/RP3133LD

Nox 48hr (New limit) From 1st Nov 17

Year: 2017			NO _x (mg/m ³)					
LCP: LCP 283								
Month				Max 48h Mean				
January				#N/A				
February				#N/A				
March				#N/A				
April				#N/A				
May				#N/A				
June				#N/A				
July				#N/A				
August				#N/A				
September				#N/A				
October				#N/A				
November				514.97				
December				435.26				
Monthly ELV/48h ELV ^(e)				#N/A				
Annual 95 th Percentile ^(f)				514.97				
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. Powell

Date of return:

19 January 2018