

Reporting of deposited particulate matter for the period from 03/03/2017 to 03/04/2017

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 ² /day)	Result ^[1] (mg/m ² /day)	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
Font-y-gary	Total deposited particulate matter	80-100	28.8	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
East Aberthaw Sidings	Total deposited particulate matter	80-100	25.9	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
Rail Bend	Total deposited particulate matter	80-100	49.2	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
Quarry North	Total deposited particulate matter	80-100	106.2	BS 1747-1:1969 and best practice guidelines	Continuous	-	-
Quarry South	Total deposited particulate matter	80-100	64.9	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 R. Powell
(authorised to sign as representative of the Operator)

Date 20/4/17

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 ...

01/03/2017

...to... 30/03/2017

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A13 (unit 7 absorber inlet)	Particulate Matter (mg/m3) (maximum hourly average value)		Continuous	332		01 - 30/03/16	MCERT monitor
A13 (unit 7 absorber inlet)	Particulate Matter (mg/m3) (monthly average value)		Continuous	73		01 - 30/03/16	MCERT monitor
A14 (unit 8 absorber inlet)	Particulate Matter (mg/m3) (maximum hourly average value)		Continuous	156		01 - 30/03/16	MCERT monitor
A14 (unit 8 absorber inlet)	Particulate Matter (mg/m3) (monthly average value)		Continuous	51		01 - 30/03/16	MCERT monitor
A15 (unit 9 absorber inlet)	Particulate Matter (mg/m3) (maximum hourly average value)		Continuous	192		01 - 30/03/16	MCERT monitor
A15 (unit 9 absorber inlet)	Particulate Matter (mg/m3) (monthly average value)		Continuous	94		01 - 30/03/16	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 R. Powell

Date 20/4/17

(Authorised to sign as representative of Operator)

Reporting of Emissions to Water (other than to Sewer) for the period from ...1st March 2017...to...30th March 2017.

Operator: RWE Generation UK plc

Form: Water1 /25/01/2013

Location: Aberthaw

Version: V.8 Jan 2013

Permit/Variation Number: EPR/RP3133LD

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W1	Total suspended solids	100 mg/l	No release	BS EN 872:2005			
W1	Ammoniacal nitrogen	2 mg/l	No release	BS 6068-2.11			
W1	Cadmium and its compounds, expressed as cadmium (Total Cd)	0.01 mg/l	No release	BS 6068-2.89			
W1	Total hydrocarbon oil	3 mg/l	No release	EN ISO 9377-2			
W1	pH (minimum daily value)	6	No release	BS 6068-2.50:1995			
W1	pH (maximum daily value)	9	No release	BS 6068-2.50:1995			
W1	pH (average daily value)	-	No release	BS 6068-2.50:1995			
W2	Differential total suspended solids	50 mg/l	9.05 mg/l	BS EN 872:2005			
W2	Ammoniacal nitrogen	0.1 mg/l (above background)	0.000 mg/l (above background)	BS6068-2.11			
W2	Differential temperature (rolling 98th percentile)	13.5°C	9.3 °C	ISO, BS EN or SCA Blue Book Method			
W2	Differential temperature (average daily value)	-	5.5 °C	ISO, BS EN or SCA Blue Book Method			
W2	Differential temperature (maximum daily value)	-	11.0 °C	ISO, BS EN or SCA Blue Book Method			
W2	Total hydrocarbon oil	3 mg/l	0.200 mg/l	EN ISO 9377-2			
W2	pH (minimum value)	5.6	5.6	BS 6068-2.50:1995			
W2	pH (maximum 95%ile value)	8.5	8.1	BS 6068-2.50:1995			
W2	pH (minimum 95%ile value)	5.8	5.9	BS 6068-2.50:1995			
W2	pH (average value)	-	6.6	BS 6068-2.50:1995			

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
SWTP1	Mercury and its compounds, expressed as mercury (Total Hg) (monthly average of daily samples)	0.0005 mg/l (above background)	0.0002 mg/l (above background)	BS EN 17852			
SWTP1	Cadmium and its compounds, expressed as cadmium (Total Cd) (monthly average of daily samples)	0.0002 mg/l (above background)	0.00002 mg/l (above background)	BS 6068-2.89			
SWTP2	Mercury and its compounds, expressed as mercury (Total Hg) (monthly average of daily samples)	0.0005 mg/l (above background)	0.0002 mg/l (above background)	BS EN 17852			
SWTP2	Cadmium and its compounds, expressed as cadmium (Total Cd) (monthly average of daily samples)	0.0002 mg/l (above background)	0.00000 mg/l (above background)	BS 6068-2.89			
SWTP3	Mercury and its compounds, expressed as mercury (Total Hg) (monthly average of daily samples)	0.0005 mg/l (above background)	0.0002 mg/l (above background)	BS EN 17852			
SWTP3	Cadmium and its compounds, expressed as cadmium (Total Cd) (monthly average of daily samples)	0.0002 mg/l (above background)	0.00000 mg/l (above background)	BS 6068-2.89			

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W2	Dissolved oxygen (minimum value)	-	8.5	mg/l	EN 25814			
W2	Dissolved oxygen (maximum value)	-	13.0	mg/l	EN 25814			
W2	Dissolved oxygen (average value)	-	12.2	mg/l	EN 25814			
SWTP1	pH (average value)	-	3.1		BS 6068-2.50:1995			
SWTP1	Flow (average daily value)	-	16502	m3/h	BS3680			
SWTP1	Flow (Total Monthly Volume)	-	9214236	m3	BS3680			
SWTP1	Arsenic and its compounds, expressed as arsenic (Total As)	-	0.0057	mg/l	BS 6068			
SWTP1	Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples)	0.004 mg/l (above background)	0.0036	mg/l (above background)	BS 6068			
SWTP1	Chromium and its compounds, expressed as chromium (Total Cr VI)	-	0.0300	mg/l	BS 6068			
SWTP1	Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples)	0.01 mg/l (above background)	0.015	mg/l (above background)	BS 6068			
SWTP1	Selenium and its compounds, expressed as selenium (Total Se)	-	0.0017	mg/l	BS 6068			

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
SWTP2	pH (average value)	-	6.4		BS 6068-2, 50:1995			
SWTP2	Flow (average daily value)	-	14454	m3/h	BS3680			
SWTP2	Flow (Total Monthly Volume)	-	8273824	m3	BS3680			
SWTP2	Arsenic and its compounds, expressed as arsenic (Total As)	-	0.0040	mg/l	BS 6068			
SWTP2	Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples)	0.004 mg/l (above background)	0.0002	mg/l (above background)	BS 6068			
SWTP2	Chromium and its compounds, expressed as chromium (Total Cr VI)	-	0.0300	mg/l	BS 6068			
SWTP2	Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples)	0.01 mg/l (above background)	0.000	mg/l (above background)	BS 6068			
SWTP2	Selenium and its compounds, expressed as selenium (Total Se)	-	0.0015	mg/l	BS 6068			

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
SWTP3	pH (average value)	-	7.1		BS 6068-2.50:1995			
SWTP3	Flow (average daily value)	-	15966	m3/h	BS3680			
SWTP3	Flow (Total Monthly Volume)	-	8449539	m3	BS3680			
SWTP3	Arsenic and its compounds, expressed as arsenic (Total As)	-	0.0038	mg/l	BS 6068			
SWTP3	Lead and its compounds, expressed as lead (Total Pb) (monthly average of daily samples)	0.004 mg/l (above background)	0.0005	mg/l (above background)	BS 6068			
SWTP3	Chromium and its compounds, expressed as chromium (Total Cr VI)	-	0.0300	mg/l	BS 6068			
SWTP3	Zinc and its compounds, expressed as zinc (Total Zn) (monthly average of daily samples)	0.01 mg/l (above background)	0.000	mg/l (above background)	BS 6068			
SWTP3	Selenium and its compounds, expressed as selenium (Total Se)	-	0.0014	mg/l	BS 6068			

[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.

[6] The emission limit values for all substances is expressed as a maximum individual value, unless otherwise stated.

Signed R. Powell

Date 20/4/17

(authorised to sign as representative of the Operator)

Reporting of Surface Water Monitoring for the period from ...1st March 2017...to...30th March 2017.....

Operator: RWE Generation UK plc

Form:

Water2 /25/01/2013

Location: Aberthaw

Version:

V.7 Jan 2013

Permit/Variation Number: EPR/RP3133LD/V006

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
Seawater intake from Bristol Channel	Total suspended solids	-	68.40 mg/l	BS EN 872:2005			
Seawater intake from Bristol Channel	pH (average value)	-	8.1	BS 6068-2.50:1995			
Seawater intake from Bristol Channel	Mercury and its compounds, expressed as mercury (Total Hg)	-	<0.00001 mg/l	BS EN 17852			
Seawater intake from Bristol Channel	Mercury (on filtered sample)	-	<0.00001 mg/l	BS EN 17852			
W2	Mercury and its compounds, expressed as mercury (Total Hg) (monthly cumulative mass)	60kg/yr	3.8 kg*	BS EN 17852			

[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.

[6] The emission limit values for all substances is expressed as a maximum individual value, unless otherwise stated.

*YTD figure has been amended due to updated average mercury content in coal based on latest analysis.

Signed R. Powell

Date 20/4/17

(authorised to sign as representative of the Operator)

RELEASES TO AIR

QUARTERLY RETURN

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

Operator: RWE Generation UK

Form:

IED COM1 (Utility boilers)

Location: Aberthaw Power Station

Version/date

V.10.9 Dec 2015

Permit/Variation Number: EPR/RP3133LD

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 ^(b)	Fuel S %	FGD Eff % ^(a)	
January	82.46	210.56	572.91	660.99	7.72	16.71			
February	65.99	115.14	562.91	651.93	7.96	11.20			
March	121.42	348.19	515.61	658.28	8.98	17.68			
April									
May									
June									
July									
August									
September									
October									
November									
December									
Monthly ELV/Daily ELV ^(a)	350.00	#N/A	1050.00	#N/A	20.00	#N/A			
Annual 95 th Percentile ^(a)	Annual Only	210.56	Annual Only	651.93	Annual Only	11.30			
Annual Percentile ELV ^(a)	#N/A	440.00	#N/A	1080.00	#N/A	35.00			

NOTES:

- 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
- Annual percentiles of hourly average concentrations are submitted with the final return (Quarter 4)
- Reference conditions. Solid fuel: 6% O₂ (dry) Liquid fuel: 3% O₂ (dry) at 273.15K, 101.325 kPa
- Required for indigenous fuel derogation only - state target removal efficiency as the ELV (if applicable)
- Leave the Daily ELV blank if this is applied as a 95th percentile ELV within the Permit
- 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
- 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:

A. Sauscher

Date of return:

07 April 2017

RELEASES TO AIR

QUARTERLY RETURN



MERCERTS
THE ENVIRONMENTAL AGENCY
MAINTAINING CERTIFICATION LICENSE
Sira MC120197/00

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: 2017		SO ₂		NO _x		Dust	
LCP: LCP 283							
Month ^(b)	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)	
Jan 2017	0	0	0	0	0	0	
Feb 2017	0	0	0	0	0	0	
Mar 2017	0	0	0	0	0	0	
Month 4							
Month 5							
Month 6							
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. J. J. J.

Date of return:

07 April 2017