



Date: 27<sup>th</sup> January 2016  
Our Ref:NRW/UPC/12  
SIMEC Uskmouth Power  
Company  
Phone: 01633 292734  
Fax: 01633292701

Mr. Gareth Richards  
Natural Resources Wales.  
Rivers House,  
St Mellons Business Park,  
St Mellons  
Cardiff.  
CF3 0RY

Monthly Reporting – PPC Authorisation N<sup>o</sup>LP3131SW

Dear Mr. Richards

Please find enclosed the following monthly environmental reports for the period;

01/12/-2015 to 31/12/2015,

ESI/01 – Fuel use & release,

ESI/02 – SO<sub>2</sub>, NO<sub>x</sub> & Dust release,

ESI/03 – Release to air monthly mean concentration,

ESI/04 – Annual Energy Input and Total Emissions

W1 - Releases to controlled waters,

I trust this is satisfactory to your requirements, if you would like further clarification on the enclosed information please do not hesitate to contact me.

Yours sincerely

Michael James

A handwritten signature in black ink, appearing to read 'Michael James', written over a white background.

UPC Environmental Officer  
Michael.james@uskmouthpower.com

Please confirm receipt by Email

RELEASES TO AIR

MONTHLY FUEL USE AND TOTAL RELEASE DATA<sup>(a)</sup>

OPERATOR: Uskmouth Power Company      FORM: ESI/01

LOCATION: Newport

PERMIT/VARIATION NUM LP3131SW


Operating Details	LCP1 <sup>(b)</sup>
Year : 2015      Month: December	
<b>Coal (tonnes)</b>	19298.00
<b>Coal Sulphur content (%)</b>	0.36
<b>Biomass (tonnes)</b>	0.00
<b>Biomass Sulphur content (%)</b>	0.00
<b>Gas Oil (tonnes)</b>	361.76
<b>Gas Oil Sulphur content (%)</b>	0.1

<b>Sulphur dioxide (tonnes)</b>	55.56
<b>Nitrogen oxides (tonnes)</b>	64.53
<b>Dust (tonnes)</b>	0.77

Notes:

(a) Including start-up & shut-down

(b) LCP = Large Combustion Plant

Signed on behalf of the Operator by:  \_\_\_\_\_

Date of return: 27/01/2016

RELEASES TO AIR

MONTHLY SO<sub>2</sub>, NO<sub>x</sub> AND DUST RELEASE DATA<sup>(a)</sup>

OPERATOR: Uskmouth Power Company

FORM: ESI/02

LOCATION: Newport

PERMIT/VARIATION NUMBER: LP3131SW

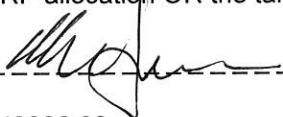
Year 2015	SO <sub>2</sub> Emissions		NO <sub>x</sub> Emissions		Dust Emissions	
	Actual (tonnes)	Cumulative Year to date (tonnes)	Actual (tonnes)	Cumulative Year to date (tonnes)	Actual (tonnes)	Cumulative Year to date (tonnes)
01 (Jan)	0.00	0.00	0.00	0.00	0.00	0.00
02 (Feb)	0.00	0.00	0.00	0.00	0.00	0.00
03 (Mar)	21.87	21.87	24.84	24.84	0.20	0.20
04 (Apr)	61.00	82.88	85.21	110.05	0.39	0.59
05 (May)	33.46	116.33	44.24	154.29	0.36	0.95
06 (Jun)	29.30	145.64	26.80	181.10	0.32	1.26
07 (Jul)	40.61	186.25	36.87	217.97	0.69	1.95
08 (Aug)	6.12	192.37	4.32	222.28	0.03	1.99
09 (Sep)	41.28	233.65	42.50	264.78	0.49	2.47
10 (Oct)	38.08	271.73	49.93	314.70	0.43	2.90
11 (Nov)	40.26	311.99	47.88	362.58	0.38	3.28
12 (Dec)	51.37	363.36	55.50	418.08	0.64	3.92
Current Allocation		3267.00		4610.00		

NOTES:

(a) Excluding start-up and shut-down

(b) Current Allocation refers to the yearly Process B limit/NERP allocation OR the target t/GWh (generated),

Signed on behalf of the Operator by:



Date of return:

42396.00

RELEASES TO AIR

MONTHLY MEAN CONCENTRATIONS AND ANNUAL PERCENTILES<sup>(a)</sup>

OPERATOR: Uskmouth Power Company FORM: ESI/03

LOCATION: Newport

PERMIT/VARIATION NUMBER: LP3131SW

Year	LCP1			
	Mean (mg/m <sup>3</sup> ) <sup>(b)</sup>			Desulphurisation <sup>(c)</sup> Efficiency
Month	SO <sub>2</sub> <sup>(c)</sup>	NO <sub>x</sub> <sup>(c)</sup>	Dust	%
January	0.00	0.00	0.00	
February	0.00	0.00	0.00	
March	352.52	453.73	2.98	
April	291.85	413.33	1.75	
May	274.66	371.35	2.58	
June	323.19	302.43	2.80	
July	309.46	281.10	4.58	
August	204.16	255.29	1.34	
September	311.02	297.81	3.28	
October	262.42	348.26	2.46	
November	288.30	338.73	2.33	
December	355.69	373.33	3.29	
Monthly Emission Limit Value	400	500	25	
48 hour means	97 <sup>th</sup>	95 <sup>th</sup>	97 <sup>th</sup>	
Annual Percentile <sup>(c)</sup>	401.40	496.90	7.80	
Annual Emission Limit Value <sup>(c)</sup>	NA	NA	NA	
Annual Desulphurisation Efficiency (%) <sup>(c)</sup>				

NOTES:

(a) Annual percentiles are submitted with the final return

(b) Reference conditions for mg/m<sup>3</sup> are 6% O<sub>2</sub> solid fuels, 3% O<sub>2</sub> for oil and gas, dry, 0°C, 101.325 kPa

(c) Required for Opted-in (ELV) plant only

Signed on behalf of the Operator by:  \_\_\_\_\_

Date of return: \_\_\_ / \_\_\_ / \_\_\_

**RELEASES TO AIR**

**ANNUAL ENERGY INPUT AND TOTAL EMISSIONS <sup>(a)</sup>**

**Operator:** Uskmouth Power Company

**Form:** ESI/04

**Location:** Newport

**Permit/Variation Number:** LP3131SW

Year 2015	Net CV (GJ/tonne)	Energy use (GJ)			
		LCP1	Aux gas turbines <sup>(b)</sup>	Aux boilers <sup>(b)</sup>	Total
Fuel					
Coal	24.03	3227253.20	0.00	0.00	3227253.20
Biomass	0.00		0.00	0.00	
Petcoke/other solid	0.00		0.00	0.00	
Heavy Fuel Oil	0.00		0.00	0.00	
Light Fuel Oil	0.00		0.00	0.00	
Gas Oil	42.294	74619.43	0.00	0.00	74619.43
Natural gas	0.00		0.00	0.00	
<b>Total</b>	<b>(GJ)</b>	<b>3301872.63</b>	<b>0.00</b>	<b>0.00</b>	<b>3301872.63</b>
Electricity production <sup>(c)</sup>	<b>(GWh)</b>				252.11
Release		Emission (tonnes)			
		LCP1	Aux gas turbines <sup>(b)</sup>	Aux boilers <sup>(b)</sup>	Total
Sulphur dioxide (tonnes)		384.27	0.00	0.00	384.27
Nitrogen oxides (tonnes)		464.23	0.00	0.00	464.23
Dust (tonnes)		4.49	0.00	0.00	4.49


**NOTES:**

(a) Including start-up and shut-down

(b) Auxiliary combustion data should be included in the LCP if the auxiliaries share a common windshield with the LCP

(c) Electricity production sent out (exported)

Signed on behalf of the Operator by:

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Date of return:

27/01/2016

RELEASES TO CONTROLLED WATER

Reporting of emissions to Water (other than sewer) for the period from:

01/12/2015 to 31/12/2015

OPERATOR: Uskmouth Power Company FORM: W1

LOCATION: Newport

PERMIT/VARIATION NUMBER: LP3131SW

Emission Point	Substance/Parameter	ELV (6)	Result (1)	Test Method (2)	Sample date and time(3)	Accreditation/ Certification(4)	Uncertainty (5)
W1a	Total Suspended Solids	75 mg/l	21	BS EN 872:2005	8/12/2015 (13:30)	UKAS 0568	19.70%
W1a	pH	6 - 9	8.4	BS6068-2:50:1995	16/12/2015 (12:00)	"	5.60%
W1a	Cadmium	0.01 mg/l		ISO, BS EN or SCA Blue book method		"	6.60%
W1a	Mercury	0.005 mg/l		ISO, BS EN or SCA Blue book method		"	7.70%
W1b	Total Suspended Solids	75 mg/l	9	BS EN 872:2005	8/12/2015 (13:40)	"	19.70%
W1b	pH	6 - 9	8.5	BS6068-2:50:1995	16/12/2015 (12:10)	"	5.60%
W1b	Cadmium	0.01 mg/l		ISO, BS EN or SCA Blue book method		"	6.60%
W1b	Mercury	0.005 mg/l		ISO, BS EN or SCA Blue book method		"	7.70%
W2	Total Suspended Solids	150 mg/l	51	BS EN 872:2005	29/12/2012 (11:20)	"	19.70%
W2	pH	6 - 9	7.5	ISO, BS EN or SCA Blue book method	29/12/2012 (11:20)	"	5.60%
W2	Temperature	30°C	17.6	ISO, BS EN or SCA Blue book method	29/12/2012 (11:20)	"	+/- 1°C
W2	Biological Oxygen	100 mg/l	10	BS EN 1899-1	29/12/2012 (11:20)	"	20.10%
W2	Zinc	2 mg/l	0.16	BS EN 6068-2:29:1987	29/12/2012 (11:20)	"	6.30%
W2	Copper	0.8 mg/l	0.21	BS EN 6068-2:29:1987	29/12/2012 (11:20)	"	8.00%
W2	Nickel	0.4 mg/l	0.21	BS EN 6068-2:29:1987	29/12/2012 (11:20)	"	7.10%
W2	Lead	0.8 mg/l	0.01	BS EN 6068-2:29:1987	29/12/2012 (11:20)	"	7.00%
W2	Chromium	0.8 mg/l	0.013	BS EN 1233:1997	29/12/2012 (11:20)	"	7.60%
W2	Flow	210 litres/ second	25	ISO, BS EN or SCA Blue book method	29/12/2012 (11:20)		0.50%
W2	Flow	19872					
W2	Flow	m3/day	2160	ISO, BS EN or SCA Blue book method	29/12/2012 (11:20)		0.50%
W2	Cadmium	0.01 mg/l		ISO, BS EN or SCA Blue book method	29/12/2012 (11:20)	UKAS 0568	6.60%
W2	Mercury	0.005 mg/l		ISO, BS EN or SCA Blue book method	29/12/2012 (11:20)	"	7.70%

(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/line 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

Signed  (authorised to sign as representative of the Operator)

Date 27/01/2016