

RELEASES TO AIR

QUARTERLY RETURN

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

OPERATING MODE: Combined Cycle

Operator: Deeside Power (UK) Ltd

Form:

IED CON2 (Gas Turbines

Location: Deeside Power Station

Version/date:

V.11 Mar 2016

Permit/Variation Number: EPR/XP3131/V002

Year: 2018	LCP: 83 (GT1)					
	NO _x (mg/m ³)			CO (mg/m ³)		
Month	Monthly Mean (d)	Max Daily Mean (d)	Part Load Max Daily Mean (e)	Monthly Mean (d)	Max Daily Mean (d)	Part Load Max Daily Mean (e)
January	58.0	70.6	70.0	2.5	4.4	5.6
February	56.3	79.6	79.6	2.8	6.6	7.8
March	58.4	73.9	91.7	1.9	4.4	5.4
April	0.0	0.0	0.0	0.0	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	0.0
June	0.0	0.0	0.0	0.0	0.0	0.0
July	0.0	0.0	0.0	0.0	0.0	0.0
August	0.0	0.0	0.0	0.0	0.0	0.0
September	0.0	0.0	0.0	0.0	0.0	0.0
October	0.0	0.0	0.0	0.0	0.0	0.0
November	0.0	0.0	0.0	0.0	0.0	0.0
December	0.0	0.0	0.0	0.0	0.0	0.0
Monthly ELV/Daily ELV ^(f)	85	115	115	100	100	100
Annual 95 th Percentile ^(g)	67.4			4.7		
Annual Percentile ELV ^(h)	95			100		

NOTES:

(a) All data based on validated hourly average concentrations, excluding start-up and shut-down and periods of malfunction or breakdown of abatement equipment, at 15% O₂, dry, 273.15K, 101.325 kPa

(b) Annual percentiles are submitted with the final return (Quarter 4)

(c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing

(d) Averages determined at loads in the range 70% < Load ≤ 100% ISO base load and above

(e) Averages determined (including part load) in the range MSUL* < Load ≤ 100% ISO base load and above (* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down)

(f) Leave the Daily ELV blank if this is applied as a 95th percentile ELV within the Permit

(g) For each pollutant, report the Annual 95th percentile of hourly averages in the first column and, if applicable, the Annual 95th percentile of daily means in the second column

(h) For each pollutant, report the Annual 95th percentile ELV for hourly averages in the first column and, if applicable, the Annual 95th percentile ELV for daily means in the second column

Signed on behalf of the Operator by:

C Brooks

Date of return:

..4/1/19..

RELEASES TO AIR

QUARTERLY RETURN

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

OPERATING MODE: Combined Cycle

Operator: Deeside Power (UK) Ltd

Form:

IED CON2 (Gas Turbines

Location: Deeside Power Station

Version/date:

V.11 Mar 2016

Permit/Variation Number: EPR/XP3131/V002

Year: 2018	LCP: 84 (GT2)					
	NO _x (mg/m ³)			CO (mg/m ³)		
Month	Monthly Mean (d)	Max Daily Mean (d)	Part Load Max Daily Mean (e)	Monthly Mean (d)	Max Daily Mean (d)	Part Load Max Daily Mean (e)
January	49.2	55.3	55.3	0.0	0.6	2.0
February	50.5	58.0	58.3	0.1	1.0	3.3
March	51.6	56.6	58.3	0.1	0.8	3.3
April	0.0	0.0	0.0	0.0	0.0	0.0
May	0.0	0.0	0.0	0.0	0.0	0.0
June	0.0	0.0	0.0	0.0	0.0	0.0
July	0.0	0.0	0.0	0.0	0.0	0.0
August	0.0	0.0	0.0	0.0	0.0	0.0
September	0.0	0.0	0.0	0.0	0.0	0.0
October	0.0	0.0	0.0	0.0	0.0	0.0
November	0.0	0.0	0.0	0.0	0.0	0.0
December	0.0	0.0	0.0	0.0	0.0	0.0
Monthly ELV/Daily ELV ^(f)	85	115	115	100	100	100
Annual 95 th Percentile ^(g)	56.3			0.4		
Annual Percentile ELV ^(h)	95			100		

NOTES:

(a) All data based on validated hourly average concentrations, excluding start-up and shut-down and periods of malfunction or breakdown of abatement equipment, at 15% O₂, dry, 273.15K, 101.325 kPa

(b) Annual percentiles are submitted with the final return (Quarter 4)

(c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing

(d) Averages determined at loads in the range 70% < Load ≤ 100% ISO base load and above

(e) Averages determined (including part load) in the range MSUL* < Load ≤ 100% ISO base load and above (* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down)

(f) Leave the Daily ELV blank if this is applied as a 95th percentile ELV within the Permit

(g) For each pollutant, report the Annual 95th percentile of hourly averages in the first column and, if applicable, the Annual 95th percentile of daily means in the second column

(h) For each pollutant, report the Annual 95th percentile ELV for hourly averages in the first column and, if applicable, the Annual 95th percentile ELV for daily means in the second column

Signed on behalf of the Operator by:

C Brooks

Date of return:

..4/1/19..

IED AR1

2018

Deeside Power (UK) Ltd.

Deeside Power Station

EPR/XP3131/V002	LCP:	83
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464

		By Fuel							
Parameter	TOTAL	Coal	Lignite	Peat	Biomass	Other solid	Liquid fuels	Natural gas	Other gases
Annual energy input (TJ)	1305.9							1305.9	
Total Annual SO ₂ emission (tonnes)	0.10								
Total Annual NO _x emission (tonnes)	71.47								
Total Annual Dust (PM) emission (tonnes)	0								

C Brooks

Date 04/01/19

- (a) Annual energy input must be reported in TJ to 1 decimal places
- (b) Annual emissions to air must be reported to 2 decimal places and exclude start-up and shut-down
- (c) All forms must be saved in the format IED AR1—DEFRA IED LCP Number - Inventory Year i.e. IED AR1-XXX-2013
- (d) No PDF documents shall be accepted
- (e) 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

Fuel Name	Annual Energy Input (TJ)
N/A	
TOTAL	0

Fuel Name	Annual Energy Input (TJ)
N/A	
TOTAL	0

IED AR1

2018

Deeside Power (UK) Ltd.

Deeside Power Station

EPR/XP3131/V002

LCP:	84
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464

Parameter	TOTAL	By Fuel							
		Coal	Lignite	Peat	Biomass	Other solid	Liquid fuels	Natural gas	Other gases
Annual energy input (TJ)	1243.3								
Total Annual SO ₂ emission (tonnes)	0.09								
Total Annual NO _x emission (tonnes)	58.51								
Total Annual Dust (PM) emission (tonnes)	0								

C Brooks

04/01/19

(a) An

- (a) Annual energy input must be reported in TJ to 1 decimal places
(b) Annual emissions to air must be reported to 2 decimal places and exclude start-up and shut-down
(c) All forms must be saved in the format IED AR1—DEFRA IED LCP Number - Inventory Year i.e. IED AR1-XXX-2013
(d) No PDF documents shall be accepted
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Breakdown of Other solid fuels (if applicable)

Fuel Name	Annual Energy Input (TJ)
N/A	
TOTAL	0

Breakdown of Other gaseous fuels (if applicable)

Fuel Name	Annual Energy Input (TJ)
N/A	
TOTAL	0

Permit Number: LP3737SW / VP3539XK

Operator: Deeside Power

Installation: Deeside Power Station

Form Number: Water 1 / Deeside

Reporting of emissions to water (other than to sewer) for the period from ...1/10/18... to ...31/12/18....

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^{[4][5]}
W1	The only discharges to W1 are rainwater run-off and site drains as permitted to W2a and W2b. These are now reported as compliance with specified conditions in the permit for W2a and W2b discharges						
W2a	pH maximum	7.74	Instantaneous	Emptying Raw Water Tank	BS6068-2.50	Diverted to W1 as agreed to provide better retention and control as agreed with NRW	N/A
W2a	pH minimum	7.74	Instantaneous	Emptying Raw Water Tank	BS6068-2.50		
W2a	Oil (and grease)	None Visible	Instantaneous	Emptying Raw Water Tank	Visual		
W2b	pH maximum	-	Instantaneous	Mixed with W2a	BS6068-2.50		
W2b	pH minimum	-	Instantaneous	Mixed with W2a	BS6068-2.50		
W2b	Oil (and grease)	-	Instantaneous	Mixed with W2a	Visual		

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.
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.
5. The result given is a best estimate based on available data.

Signed *C. B. Smith* Date...4/1/19.....
 (Authorised to sign as representative of Operator)